SONY®

HD CAMERA SIGNAL DISTRIBUTOR

HDCD-50

HDVS

MAINTENANCE MANUAL

Volume 2 1st Edition
Serial No. 10001 and Higher

SAFETY RELATED COMPONENT WARNING

Components identified by shading and ⚠ marked on the schematic diagrams and parts list are critical to safe operation. Replace these components with SONY parts whose part numbers appear as shown in this manual or in supplements published by SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

Check the metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 3.5 mA. Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 5.25V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 20V AC range are suitable. (See Fig. A)

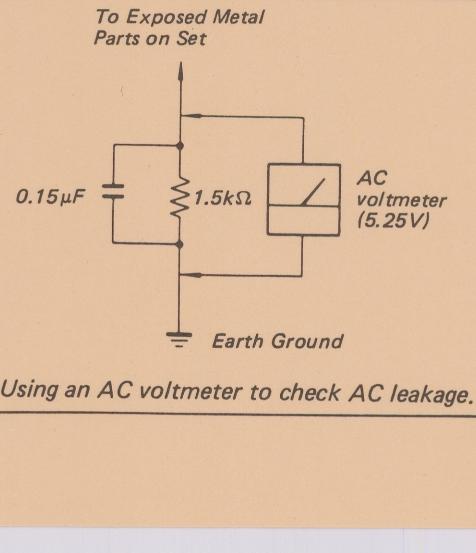

Fig. A. Using an AC voltmeter to check AC leakage.

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目 次
TABLE OF CONTENTS

Volume 1

1. 設置

2. 主要部品の交換方法

3. サービスインフォメーション

4. 調整要項

1. INSTALLATION

2. REPLACEMENT OF MAIN PARTS

3. SERVICE INFORMATION

4. ALIGNMENT

Volume 2

A. BLOCK DIAGRAMS

OVERALL BLOCK ······ A-1
AU-165 BLOCK ······ A-2
VDA-20 BLOCK ······ A-3
AU-166 BLOCK ······ A-4

B. SEMICONDUCTOR PIN ASSIGNMENTS

C. SCHEMATIC DIAGRAMS AND BOARD ILLUSTRATIONS

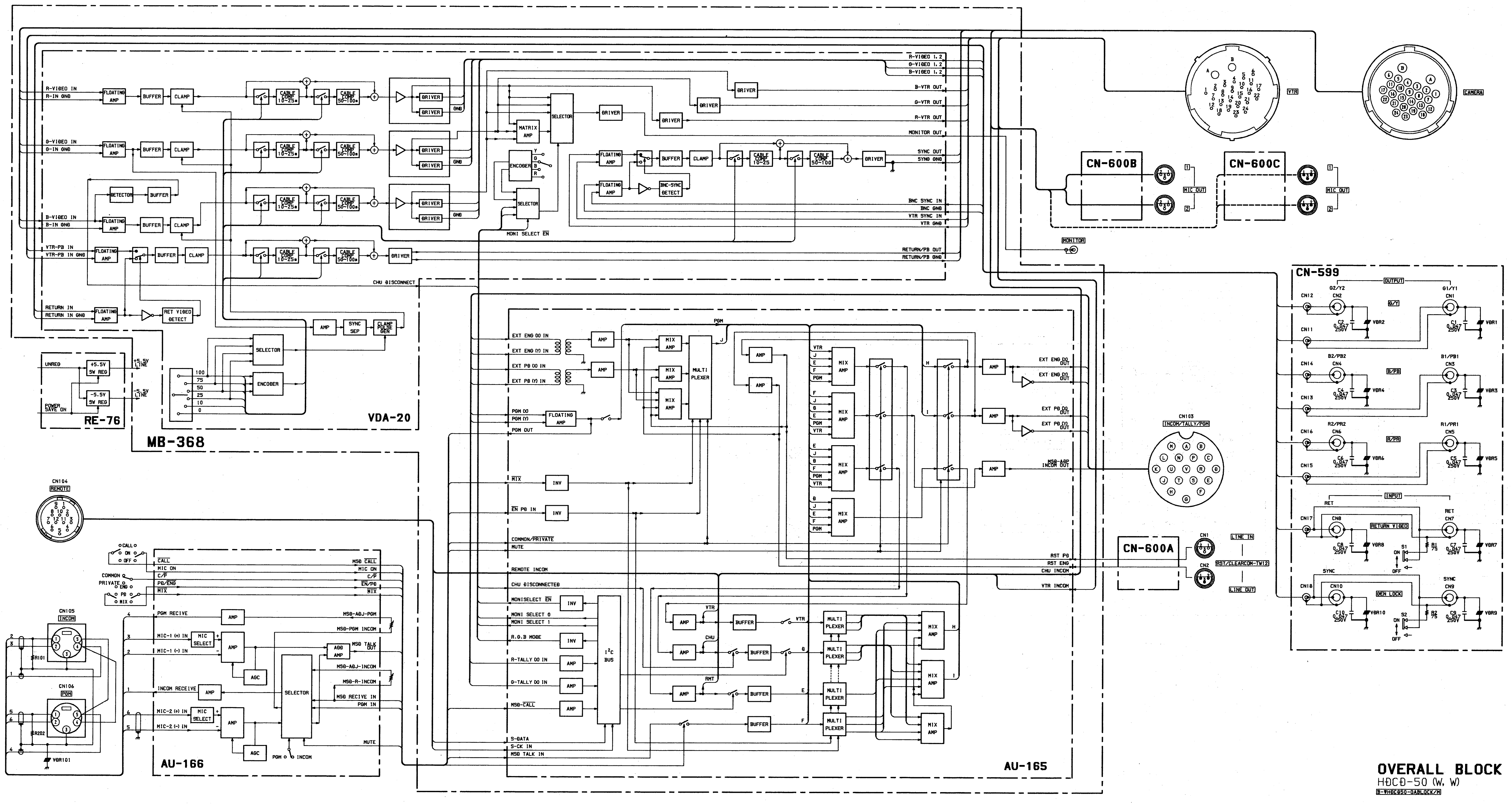
BOARD LAYOUT ······ C-1
AU-165 ······ C-2
VDA-20 ······ C-4
AU-166 ······ C-7
FRAME ······ C-8
  MB-368
  RE-76
  CN-599
  CN-600A
  CN-600B
  CN-600C

D. SPARE PARTS

PARTS INFORMATION ······ D-1
EXPLODED VIEW ······ D-2
ELECTRICAL PARTS ······ D-6

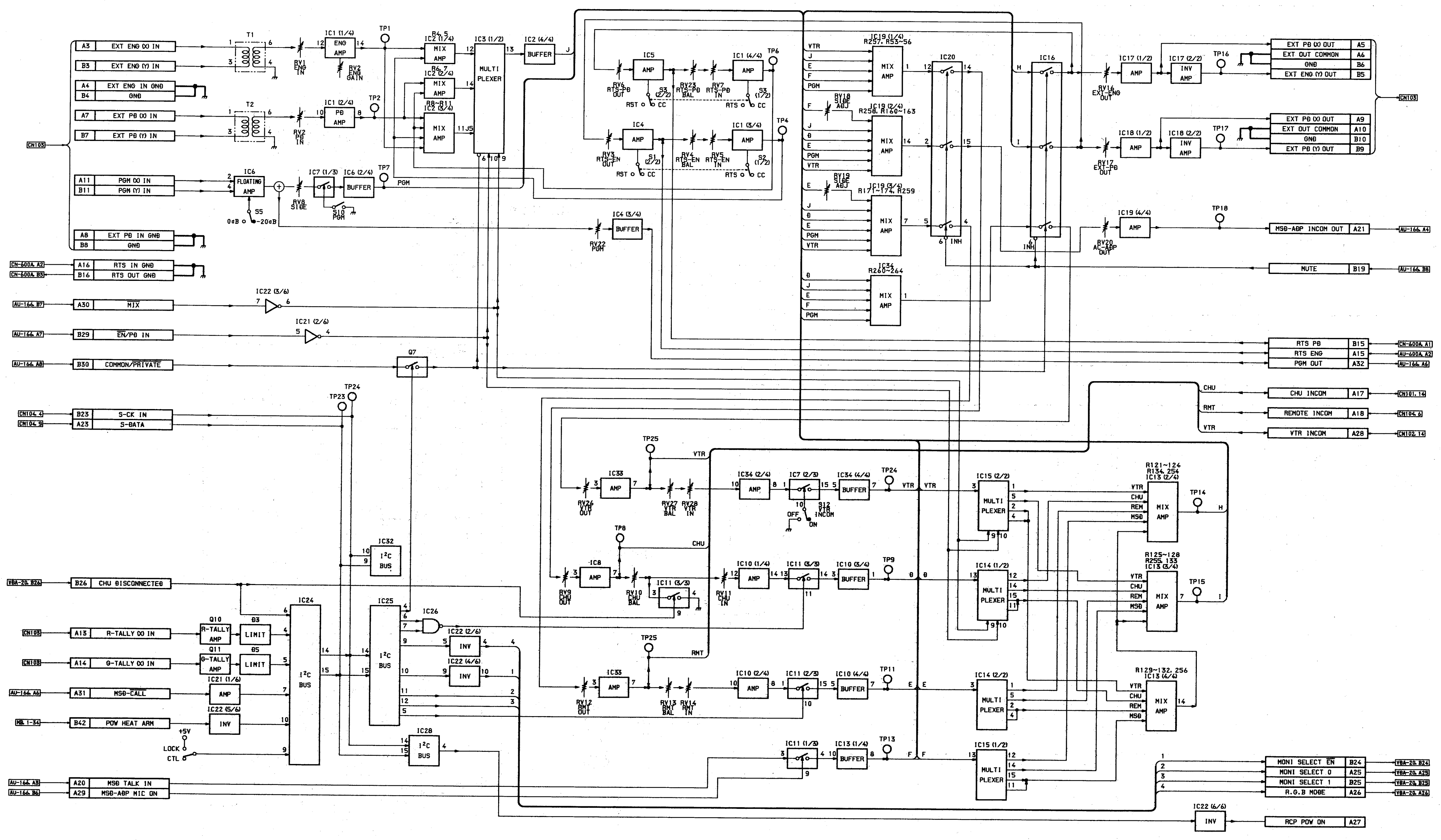
SECTION A
BLOCK DIAGRAMS

OVERALL BLOCK


R-VIDEO IN
R-IN GND
G-VIDEO IN
G-IN GND
B-VIDEO IN
B-IN GND
VTR-PB IN
VTR-PB IN GND
RETURN IN
RETURN IN GND
FLOATING AMP
BUFFER
CLAMP
DETECTOR
RET VIDEO DETECT
CABLE COMP 10-25m
CABLE COMP 50-100m
DRIVER
SELECTOR
MATRIX AMP
ENCODER
MONI SELECT EN
BNC-SYNC DETECT
R-VIDEO 1, 2
G-VIDEO 1, 2
B-VIDEO 1, 2
B-VTR OUT
G-VTR OUT
R-VTR OUT
MONITOR OUT
SYNC OUT
SYNC GND
BNC SYNC IN
BNC GND
VTR SYNC IN
VTR GND
RETURN/PB OUT
RETURN/PB GND
CHU DISCONNECT
AMP
SYNC SEP
CLAMP PULSE GEN
VDA-20
RE-76
UNREG
+5.5V LINE
-5.5V LINE
+5.5V 3W REG
-5.5V 3W REG
POWER SAVE ON
MB-368
CN104
REMOTE
CN105
INCOM
CN106
PGM
AU-166
AU-165
EXT ENG (I) IN
EXT ENG (I) IN
EXT PB (I) IN
EXT PB (I) IN
PGM (I)
PGM (I)
PGM OUT
MIX AMP
MULTI PLEXER
INV
I²C BUS
BUFFER
EXT ENG (I) OUT
EXT PB (I) OUT
MSG ADD INCOM OUT
RST PB
RST ENG
CHU INCOM
VTR INCOM
MIX
EN PB IN
COMMON/PRIVATE
MUTE
REMOTE INCOM
CHU DISCONNECTED
MONI SELECT EN
MONI SELECT 0
MONI SELECT 1
R.G.B MODE
R-TALLY (I) IN
G-TALLY (I) IN
MSG-CALL
S-DATA
S-CK IN
MSG TALK IN
CALL
MIC ON
C/P
PB/ENG
PGM RECEIVE
MIC-1 (+) IN
MIC-1 (-) IN
MIC SELECT
AGC
ADD AMP
INCOM RECEIVE
MIC-2 (+) IN
MIC-2 (-) IN
PGM ⊙ INCOM
MSG-ADJ-PGM
MSG-PGM INCOM
MSG TALK OUT
MSG-ADJ-INCOM
MSG-R-INCOM
MSG RECIVE IN
MSG PGM IN
VTR
CAMERA
CN-600B
CN-600C
MIC OUT
MONITOR
CN-600A
LINE IN
RST/CLEARCOM-TW12
LINE OUT
CN103
INCOM/TALLY/PGM
CN-599
OUTPUT
G2/Y2
G1/Y1
B2/PB2
B1/PB1
R2/PR2
R1/PR1
INPUT
RET
RETURN VIDEO
SYNC
GEN LOCK

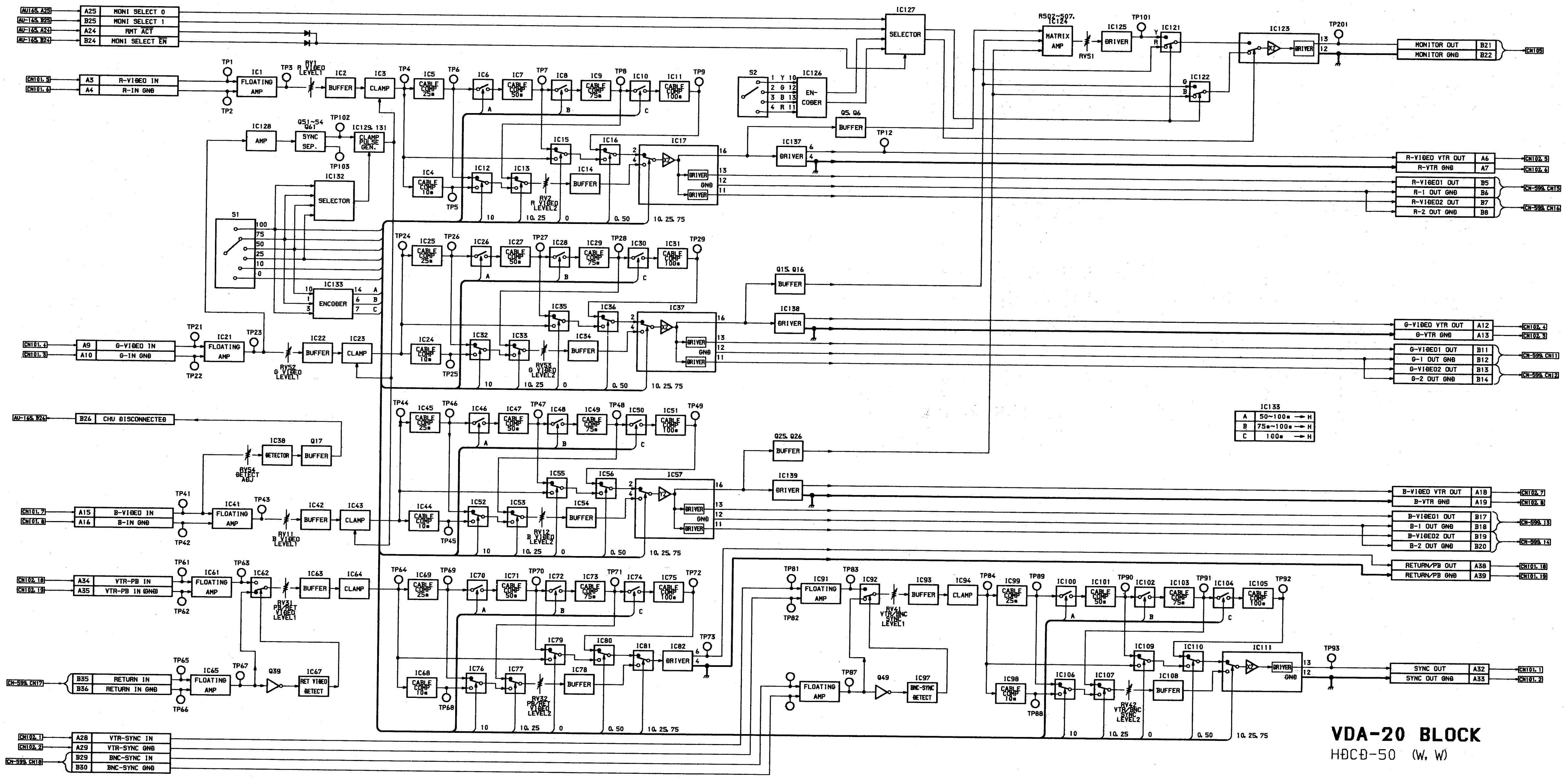
OVERALL BLOCK
HDCD-50 (W, W)

AU-165 BLOCK


EXT ENG (X) IN
EXT ENG (Y) IN
EXT ENG IN GND
GND
EXT PB (X) IN
EXT PB (Y) IN
PGM (X) IN
PGM (Y) IN
EXT PB IN GND
GND
RTS IN GND
RTS OUT GND
MIX
EN/PB IN
COMMON/PRIVATE
S-CK IN
S-DATA
CHU DISCONNECTED
R-TALLY (X) IN
G-TALLY (X) IN
MSG-CALL
POW HEAT ARM
MSG TALK IN
MSG-ABP MIC ON
ENG AMP
PB AMP
FLOATING AMP
BUFFER
MIX AMP
MULTI PLEXER
AMP
INV
LIMIT
I²C BUS
EXT PB (X) OUT
EXT OUT COMMON
GND
EXT ENG (Y) OUT
EXT PB (Y) OUT
MSG-ABP INCOM OUT
MUTE
RTS PB
RTS ENG
PGM OUT
CHU INCOM
REMOTE INCOM
VTR INCOM
MONI SELECT EN
MONI SELECT 0
MONI SELECT 1
R.G.B MODE
RCP POW ON
VTR
CHU
REM
MSG
RMT
PGM
LOCK
CTL
+5V

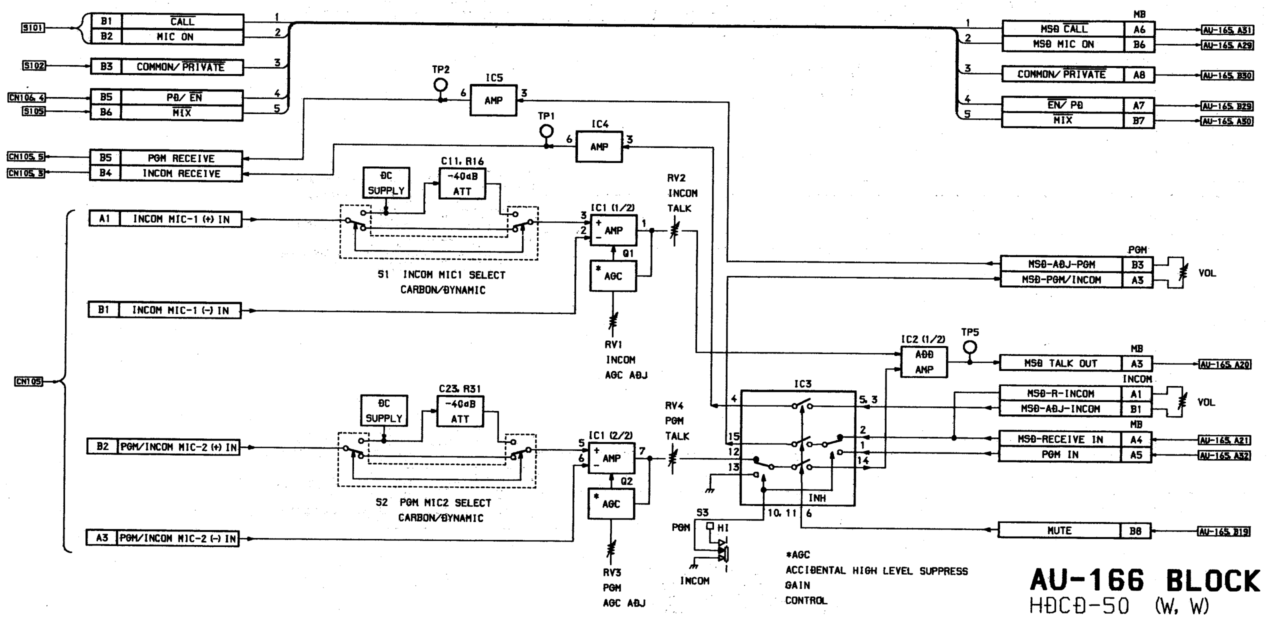
AU-165 BLOCK
HDCD-50 (W, W)

VDA-20 BLOCK


MONI SELECT 0
MONI SELECT 1
RMT ACT
MONI SELECT EN
R-VIDEO IN
R-IN GND
G-VIDEO IN
G-IN GND
B-VIDEO IN
B-IN GND
CHU DISCONNECTED
VTR-PB IN
VTR-PB IN GND
RETURN IN
RETURN IN GND
VTR-SYNC IN
VTR-SYNC GND
BNC-SYNC IN
BNC-SYNC GND
FLOATING AMP
BUFFER
CLAMP
CABLE COMP 25m
CABLE COMP 50m
CABLE COMP 75m
CABLE COMP 100m
CABLE COMP 10m
SYNC SEP.
CLAMP PULSE GEN.
SELECTOR
ENCODER
EN-CODER
MATRIX AMP
DRIVER
DETECTOR
RET VIDEO DETECT
BNC-SYNC DETECT
R-VIDEO VTR OUT
R-VTR GND
R-VIDEO1 OUT
R-1 OUT GND
R-VIDEO2 OUT
R-2 OUT GND
G-VIDEO VTR OUT
G-VTR GND
G-VIDEO1 OUT
G-1 OUT GND
G-VIDEO2 OUT
G-2 OUT GND
B-VIDEO VTR OUT
B-VTR GND
B-VIDEO1 OUT
B-1 OUT GND
B-VIDEO2 OUT
B-2 OUT GND
RETURN/PB OUT
RETURN/PB GND
MONITOR OUT
MONITOR GND
SYNC OUT
SYNC OUT GND
IC133
A 50~100m → H
B 75m~100m → H
C 100m → H

VDA-20 BLOCK
HDCD-50 (W, W)

AU-166 BLOCK


S101
B1 CALL
B2 MIC ON
S102
B3 COMMON/PRIVATE
CN106, 4
S105
B5 PD/EN
B6 MIX
CN105, 5
CN105, 3
B5 PGM RECEIVE
B4 INCOM RECEIVE
1
2
3
4
5
TP2
IC5
AMP
6
3
TP1
IC4
AMP
6
3
DC SUPPLY
C11, R16
-40dB ATT
DC SUPPLY
C23, R31
-40dB ATT
CN105
A1 INCOM MIC-1 (+) IN
B1 INCOM MIC-1 (-) IN
B2 PGM/INCOM MIC-2 (+) IN
A3 PGM/INCOM MIC-2 (-) IN
S1 INCOM MIC1 SELECT
CARBON/DYNAMIC
S2 PGM MIC2 SELECT
CARBON/DYNAMIC
IC1 (1/2)
AMP
Q1
* AGC
IC1 (2/2)
AMP
Q2
* AGC
RV1
INCOM
AGC ADJ
RV3
PGM
AGC ADJ
RV2
INCOM
TALK
RV4
PGM
TALK
IC3
4
5, 3
15
12
13
2
1
14
INH
10, 11
6
S3
PGM
HI
INCOM
IC2 (1/2)
ADD
AMP
TP5
MB
1 MSD CALL A6
2 MSD MIC ON B6
3 COMMON/PRIVATE A8
4 EN/PD A7
5 MIX B7
AU-165, A31
AU-165, A29
AU-165, B30
AU-165, B29
AU-165, A30
PGM
MSD-ADJ-PGM B3
MSD-PGM/INCOM A3
VOL
MB
MSD TALK OUT A3
AU-165, A20
INCOM
MSD-R-INCOM A1
MSD-ADJ-INCOM B1
VOL
MB
MSD-RECEIVE IN A4
PGM IN A5
AU-165, A21
AU-165, A32
MUTE B8
AU-165, B19
*AGC
ACCIDENTAL HIGH LEVEL SUPPRESS
GAIN
CONTROL
AU-166 BLOCK
HDCD-50 (W, W)

SECTION B
SEMICONDUCTOR PIN ASSIGNMENT

The circuit diagram of IC is obtained from the IC data book published by the manufacturer.

TYPE PAGE

2SA1610 ··········· B-2
2SA1611 ··········· B-2

2SB1114 ··········· B-2

2SC4176 ··········· B-2
2SC4177 ··········· B-2

2SD1614 ··········· B-2

2SJ182S ··········· B-2

2SK425 ··········· B-2

CLC406AJE ··········· B-3
CLC505AJE ··········· B-3

CXA1297M ··········· B-3
CXA1432M ··········· B-3
CXA1450M ··········· B-3
CXA1451M ··········· B-3

EA30QS04-F ··········· B-2
EA60QC06-F ··········· B-2

GL-2PR1 ··········· B-2

MA141WK ··········· B-2
MA143 ··········· B-2

MC14025BF ··········· B-3
MC14050BF ··········· B-4
MC14052BF ··········· B-4
MC14053BF ··········· B-4
MC14066BF ··········· B-4
MC14075BF ··········· B-4
MC14490F ··········· B-4
MC14532BF ··········· B-5

NJM386BS ··········· B-5
NJM4556M-A ··········· B-5

PCF8574AT ··········· B-5
PCF8591T ··········· B-6

REF-03GS ··········· B-6

SN74HC157ANS ··········· B-6
SN74HC241ANS ··········· B-6
SN75ALS181NS ··········· B-7

TC4049BF ··········· B-7
TC74HC4538AF ··········· B-7

TL1451ACNS ··········· B-7
TL7705CPS-B ··········· B-7

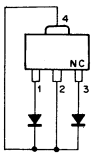
TLR206 ··········· B-2

TYPE PAGE

UPC4062G2 ··········· B-7
UPC4064G ··········· B-7

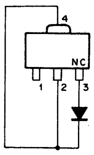
DIODE, TRANSISTOR

TOP VIEW (SCALE 4/1)

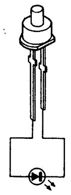


EA30QS04-F

TOP VIEW (SCALE 4/1)

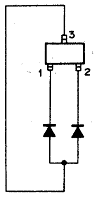


EA60QC06-F



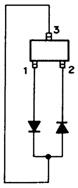
GL-2PR1 ; RED

(SCALE 4/1)
TOP VIEW

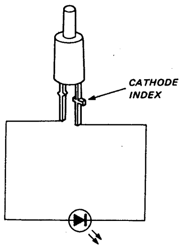


MA141WK

(SCALE 4/1)
TOP VIEW

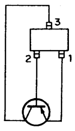


MA143


CATHODE INDEX

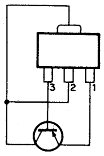
TLR206 ; RED

(SCALE 4/1)
TOP VIEW



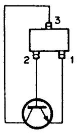
2SA1610
2SA1611

(SCALE 4/1)
TOP VIEW



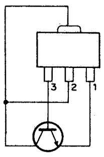
2SB1114

(SCALE 4/1)
TOP VIEW

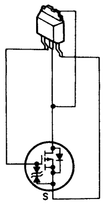


2SC4176
2SC4177

TOP VIEW (SCALE 4/1)

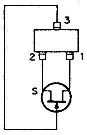


2SD1614



2SJ182S

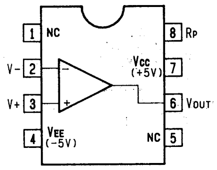
TOP VIEW (SCALE 4/1)



2SK425

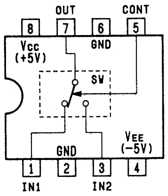
CLC406AJE (COMLINEAR) FLAT PACKAGE
CLC505AJE (COMLINEAR) FLAT PACKAGE

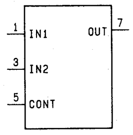
OPERATIONAL AMPLIFIER
– TOP VIEW –


1 NC
V- 2
V+ 3
4 VEE (-5V)
8 Rp
Vcc (+5V) 7
6 VOUT
NC 5

CXA1450M (SONY) FLAT PACKAGE

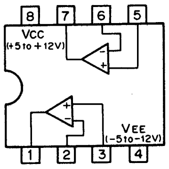
VIDEO SIGNAL SWITCH
– TOP VIEW –


OUT
CONT
8 7 6 5
Vcc (+5V)
GND
SW
GND
VEE (-5V)
1 2 3 4
IN1
IN2


1 IN1
3 IN2
5 CONT
OUT 7

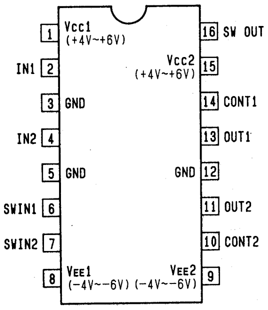
CXA1297M (SONY) FLAT PACKAGE

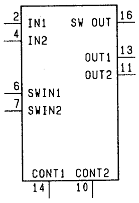
OPERATIONAL AMPLIFIER
– TOP VIEW –


8 7 6 5
VCC (+5 to +12V)
VEE (-5 to -12V)
1 2 3 4

CXA1451M (SONY)

WIDEBAND VIDEO SWITCH
– TOP VIEW –


1 Vcc1 (+4V~+6V)
IN1 2
3 GND
IN2 4
5 GND
SWIN1 6
SWIN2 7
8 VEE1 (-4V~-6V)
16 SW OUT
Vcc2 (+4V~+6V) 15
14 CONT1
13 OUT1
GND 12
11 OUT2
10 CONT2
VEE2 (-4V~-6V) 9

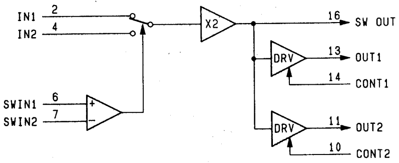

2 IN1
4 IN2
SW OUT 16
OUT1 13
OUT2 11
6 SWIN1
7 SWIN2
CONT1 14
CONT2 10

INPUT

CONT1, 2	; POWER SAVE CONTROL PIN OF DRV.1 AND DRV.2
INT1, 2	; 1/2-CHANNEL INPUT PIN
SWIN1, 2	; IN1/IN2 PINS SWITCH CONTROL PIN

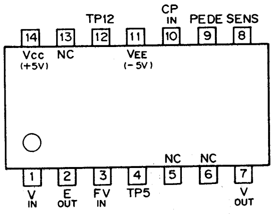
OUTPUT

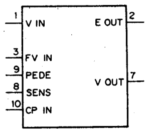
OUT1, 2	; OUTPUT PIN OF DRV.1/2
SWOUT	; OUTPUTS IN1 PIN OR IN2 PIN WHICH HAS BEEN SELECTED BY SWITCH.


IN1 2
IN2 4
SWIN1 6
SWIN2 7
X2
16 SW OUT
DRV
13 OUT1
14 CONT1
DRV
11 OUT2
10 CONT2

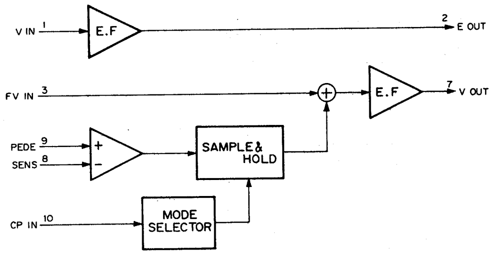
CXA1432M (SONY) FLAT PACKAGE

VIDEO SIGNAL CLAMPER
– TOP VIEW –


TP12
CP IN
PEDE
SENS
14 13 12 11 10 9 8
Vcc (+5V)
NC
VEE (-5V)
NC NC
1 2 3 4 5 6 7
V IN
E OUT
FV IN
TP5
V OUT

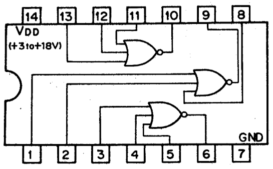

1 V IN
E OUT 2
3 FV IN
9 PEDE
8 SENS
10 CP IN
V OUT 7

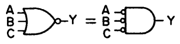
CP IN	; CLAMP PULSE INPUT
E OUT	; BUFFER AMP OUTPUT
FV IN	; FLOATING VIDEO SIGNAL INPUT
PEDE	; CLAMP LEVEL DC INPUT
SENS	; CLAMP POINT SIGNAL INPUT
TP5, TP12	; FOR TEST
V IN	; VIDEO SIGNAL INPUT
V OUT	; VIDEO SIGNAL OUTPUT


V IN 1
E.F
2 E OUT
FV IN 3
E.F
7 V OUT
PEDE 9
SENS 8
SAMPLE & HOLD
CP IN 10
MODE SELECTOR

MC14025BF (MOTOROLA) FLAT PACKAGE

C-MOS 3-INPUT NOR GATE
– TOP VIEW –


14 13 12 11 10 9 8
VDD (+3 to +18V)
GND
1 2 3 4 5 6 7



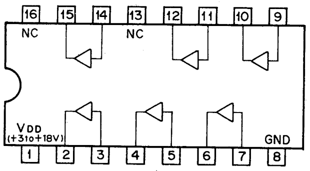
$Y = \overline{A+B+C} = \bar{A} \cdot \bar{B} \cdot \bar{C}$

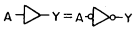
A	B	C	Y
0	0	0	1
X	X	1	0
X	1	X	0
1	X	X	0

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

MC14050BF (MOTOROLA) FLAT PACKAGE

C-MOS NON-INVERTING TYPE BUFFER/CONVERTER
– TOP VIEW –


16
15
14
13
12
11
10
9
NC
NC
VDD
(+3 to +18V)
GND
1
2
3
4
5
6
7
8



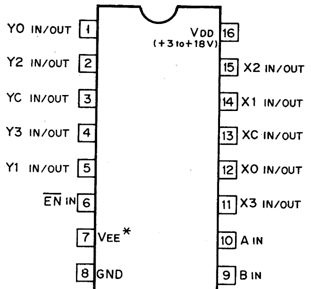
Y= A

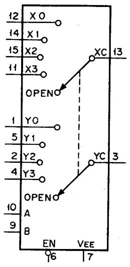
A	Y
0	0
1	1

0 ; LOW LEVEL
1 ; HIGH LEVEL

MC14052BF (MOTOROLA) FLAT PACKAGE

C-MOS DUAL 4-CHANNEL ANALOG MULTIPLEXERS/DEMULTIPLEXERS
– TOP VIEW –


Y0 IN/OUT 1
Y2 IN/OUT 2
YC IN/OUT 3
Y3 IN/OUT 4
Y1 IN/OUT 5
EN IN 6
7 VEE*
8 GND
VDD (+3 to +18V) 16
15 X2 IN/OUT
14 X1 IN/OUT
13 XC IN/OUT
12 X0 IN/OUT
11 X3 IN/OUT
10 A IN
9 B IN


12 X0
14 X1
15 X2
11 X3
OPEN
XC 13
1 Y0
5 Y1
2 Y2
4 Y3
OPEN
YC 3
10 A
9 B
EN
VEE
6
7

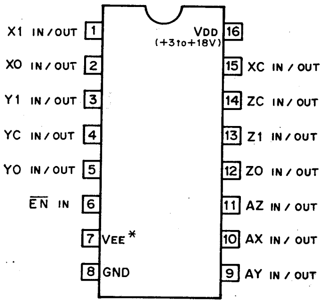
VEE*; VDD−VEE= +3 to +18V

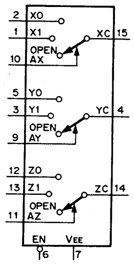
CONTROL INPUTS			"ON" CHANNEL
EN	B	A	
0	0	0	0
0	0	1	1
0	1	0	2
0	1	1	3
1	X	X	OPEN

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE.

MC14053BF (MOTOROLA) FLAT PACKAGE

C-MOS TRIPLE 2-CHANNEL ANALOG MULTIPLEXERS/DEMULTIPLEXERS
– TOP VIEW –


X1 IN/OUT 1
X0 IN/OUT 2
Y1 IN/OUT 3
YC IN/OUT 4
Y0 IN/OUT 5
EN IN 6
7 VEE*
8 GND
VDD (+3 to +18V) 16
15 XC IN/OUT
14 ZC IN/OUT
13 Z1 IN/OUT
12 Z0 IN/OUT
11 AZ IN/OUT
10 AX IN/OUT
9 AY IN/OUT


2 X0
1 X1
OPEN
10 AX
XC 15
5 Y0
3 Y1
OPEN
9 AY
YC 4
12 Z0
13 Z1
OPEN
11 AZ
ZC 14
EN
VEE
6
7

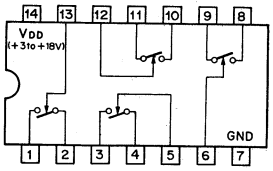
VEE*; VDD−VEE= +3 to +18 V

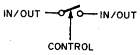
CONT. INPUTS		ON CHANNEL
EN	A (X,Y,Z,)	
0	0	0
0	1	1
1	X	OPEN

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE.

MC14066BF (MOTOROLA) FLAT PACKAGE

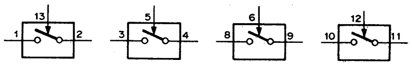
C-MOS QUAD BILATERAL ANALOG SWITCH
– TOP VIEW –


14
13
12
11
10
9
8
VDD
(+3 to +18V)
GND
1
2
3
4
5
6
7


IN/OUT
IN/OUT
CONTROL

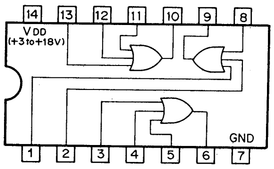
CONTROL	SWITCH
0	OFF
1	ON

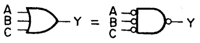
0; LOW LEVEL
1; HIGH LEVEL


13
1
2
5
3
4
6
8
9
12
10
11

MC14075BF (MOTOROLA)

C-MOS 3-INPUT OR GATE
– TOP VIEW –


14
13
12
11
10
9
8
VDD
(+3 to +18V)
GND
1
2
3
4
5
6
7



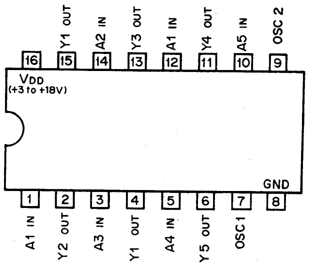
$Y = A + B + C = \overline{\overline{A}\cdot\overline{B}\cdot\overline{C}}$

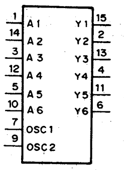
C	B	A	Y
0	0	0	0
X	X	1	1
X	1	X	1
1	X	X	1

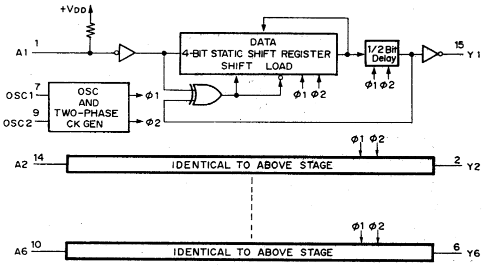
0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

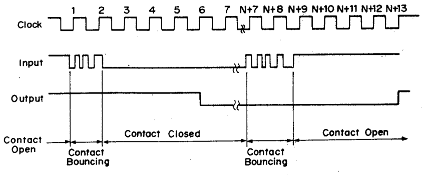
MC14490F (MOTOROLA) FLAT PACKAGE

C-MOS HEX CONTACT BOUNCE ELIMINATOR
– TOP VIEW –


Y1 OUT
A2 IN
Y3 OUT
A1 IN
Y4 OUT
A5 IN
OSC 2
16
15
14
13
12
11
10
9
VDD
(+3 to +18V)
GND
1
2
3
4
5
6
7
8
A1 IN
Y2 OUT
A3 IN
Y1 OUT
A4 IN
Y5 OUT
OSC1


1 A1
14 A2
3 A3
12 A4
5 A5
10 A6
7 OSC1
9 OSC2
Y1 15
Y2 2
Y3 13
Y4 4
Y5 11
Y6 6

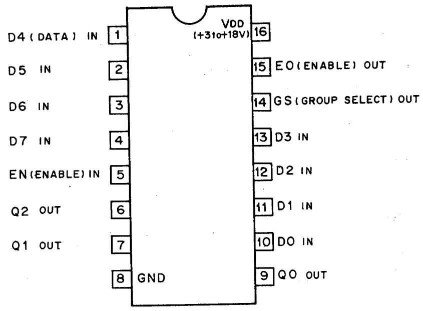

+VDD
A1 1
DATA
4-BIT STATIC SHIFT REGISTER
SHIFT LOAD
1/2 Bit Delay
15 Y1
φ1 φ2
φ1 φ2
OSC1 7
OSC2 9
OSC AND TWO-PHASE CK GEN
φ1
φ2
φ1 φ2
A2 14
IDENTICAL TO ABOVE STAGE
2 Y2
φ1 φ2
A6 10
IDENTICAL TO ABOVE STAGE
6 Y6

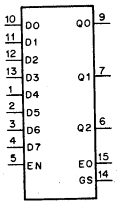


MC14532BF (MOTOROLA) FLAT PACKAGE

C-MOS 8-BIT PRIORITY ENCODER

– TOP VIEW –

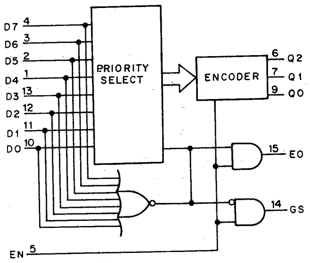

D4 (DATA) IN 1
D5 IN 2
D6 IN 3
D7 IN 4
EN (ENABLE) IN 5
Q2 OUT 6
Q1 OUT 7
8 GND
VDD (+3to+18V) 16
15 EO (ENABLE) OUT
14 GS (GROUP SELECT) OUT
13 D3 IN
12 D2 IN
11 D1 IN
10 D0 IN
9 Q0 OUT


10 D0
11 D1
12 D2
13 D3
1 D4
2 D5
3 D6
4 D7
5 EN
Q0 9
Q1 7
Q2 6
EO 15
GS 14

D7 IS THE HIGHEST PRIORITY

INPUTS									OUTPUTS				
EN	D7	D6	D5	D4	D3	D2	D1	D0	GS	Q2	Q1	Q0	EO
0	X	X	X	X	X	X	X	X	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	0	1
1	1	X	X	X	X	X	X	X	1	1	1	1	0
1	0	1	X	X	X	X	X	X	1	1	1	0	0
1	0	0	1	X	X	X	X	X	1	1	0	1	0
1	0	0	0	1	X	X	X	X	1	1	0	0	0
1	0	0	0	0	1	X	X	X	1	0	1	1	0
1	0	0	0	0	0	1	X	X	1	0	1	0	0
1	0	0	0	0	0	0	1	X	1	0	0	1	0
1	0	0	0	0	0	0	0	1	1	0	0	0	0

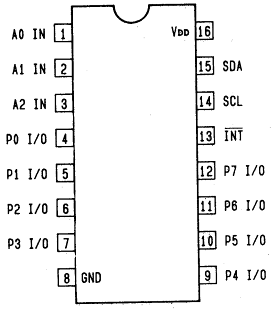
1 : HIGH LEVEL
0 : LOW LEVEL
X : DON'T CARE

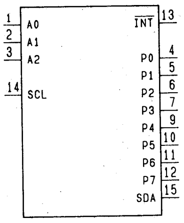

D7 4
D6 3
D5 2
D4 1
D3 13
D2 12
D1 11
D0 10
EN 5
PRIORITY SELECT
ENCODER
6 Q2
7 Q1
9 Q0
15 EO
14 GS

PCF8574AT (PHILIPS)

C-MOS REMOTE 8-BIT I/O EXPANDER

– TOP VIEW –

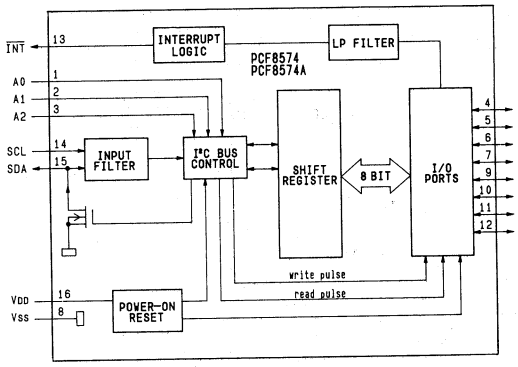

A0 IN 1
A1 IN 2
A2 IN 3
P0 I/O 4
P1 I/O 5
P2 I/O 6
P3 I/O 7
8 GND
VDD 16
15 SDA
14 SCL
13 INT
12 P7 I/O
11 P6 I/O
10 P5 I/O
9 P4 I/O


1 A0
2 A1
3 A2
14 SCL
INT 13
P0 4
P1 5
P2 6
P3 7
P4 9
P5 10
P6 11
P7 12
SDA 15

INPUT
A0–A2 ; ADDRESS INPUT
SCL ; SYSTEM CLOCK LINE

OUTPUT
$\overline{\text{INT}}$; INTERRUPT OUTPUT
SDA ; SERIAL DATA LINE

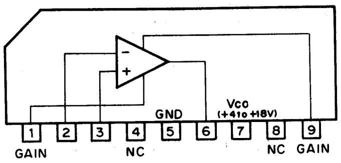
INPUT/OUTPUT
P0–P7 ; 8 BITS QUASI-BIDIRECTIONAL I/O PORT


INT 13
INTERRUPT LOGIC
LP FILTER
PCF8574
PCF8574A
A0 1
A1 2
A2 3
SCL 14
SDA 15
INPUT FILTER
I²C BUS CONTROL
SHIFT REGISTER
8 BIT
I/O PORTS
4 P0
5 P1
6 P2
7 P3
9 P4
10 P5
11 P6
12 P7
write pulse
read pulse
VDD 16
Vss 8
POWER-ON RESET

NJM386BS (JRC)

AUDIO POWER AMPLIFIER

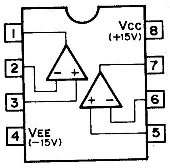
– SIDE VIEW –


GND
Vcc (+4to+18V)
1 2 3 4 5 6 7 8 9
GAIN
NC
NC
GAIN

NJM4556M-A (JRC) FLAT PACKAGE

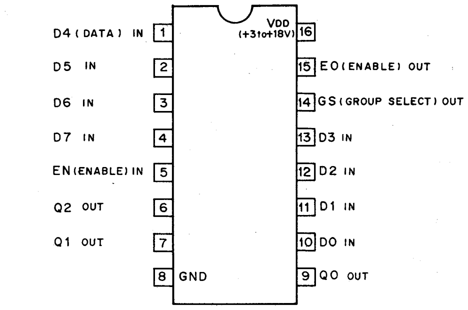
OPERATIONAL AMPLIFIER
(WIDE BAND, DECOMPENSATED)

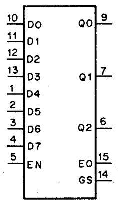
– TOP VIEW –


1
2
3
4
VEE (−15V)
Vcc (+15V)
8
7
6
5

MC14532BF (MOTOROLA) FLAT PACKAGE

C-MOS 8-BIT PRIORITY ENCODER
– TOP VIEW –

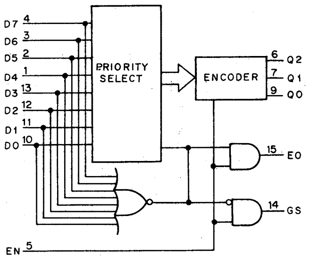

D4 (DATA) IN 1
D5 IN 2
D6 IN 3
D7 IN 4
EN (ENABLE) IN 5
Q2 OUT 6
Q1 OUT 7
8 GND
VDD (+3to+18V) 16
15 EO (ENABLE) OUT
14 GS (GROUP SELECT) OUT
13 D3 IN
12 D2 IN
11 D1 IN
10 D0 IN
9 Q0 OUT


10 D0
11 D1
12 D2
13 D3
1 D4
2 D5
3 D6
4 D7
5 EN
Q0 9
Q1 7
Q2 6
EO 15
GS 14

D7 IS THE HIGHEST PRIORITY

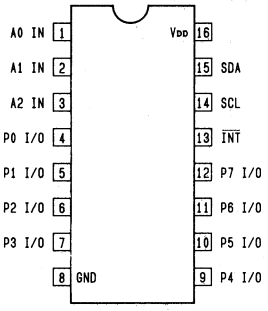
INPUTS									OUTPUTS				
EN	D7	D6	D5	D4	D3	D2	D1	D0	GS	Q2	Q1	Q0	EO
0	X	X	X	X	X	X	X	X	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	0	1
1	1	X	X	X	X	X	X	X	1	1	1	1	0
1	0	1	X	X	X	X	X	X	1	1	1	0	0
1	0	0	1	X	X	X	X	X	1	1	0	1	0
1	0	0	0	1	X	X	X	X	1	1	0	0	0
1	0	0	0	0	1	X	X	X	1	0	1	1	0
1	0	0	0	0	0	1	X	X	1	0	1	0	0
1	0	0	0	0	0	0	1	X	1	0	0	1	0
1	0	0	0	0	0	0	0	1	1	0	0	0	0

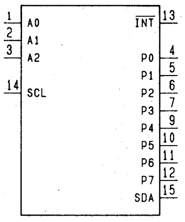
1 : HIGH LEVEL
0 : LOW LEVEL
X : DON'T CARE


D7 4
D6 3
D5 2
D4 1
D3 13
D2 12
D1 11
D0 10
PRIORITY SELECT
ENCODER
6 Q2
7 Q1
9 Q0
15 EO
14 GS
EN 5

PCF8574AT (PHILIPS)

C-MOS REMOTE 8-BIT I/O EXPANDER
– TOP VIEW –

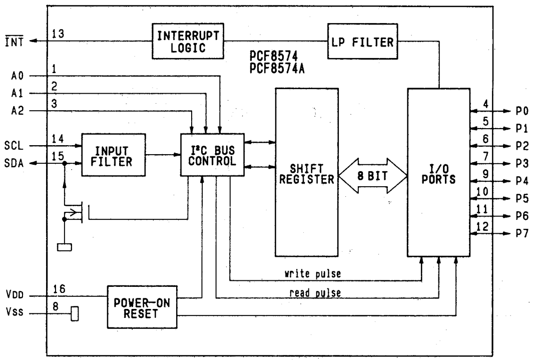

A0 IN 1
A1 IN 2
A2 IN 3
P0 I/O 4
P1 I/O 5
P2 I/O 6
P3 I/O 7
8 GND
VDD 16
15 SDA
14 SCL
13 INT
12 P7 I/O
11 P6 I/O
10 P5 I/O
9 P4 I/O


1 A0
2 A1
3 A2
14 SCL
INT 13
P0 4
P1 5
P2 6
P3 7
P4 9
P5 10
P6 11
P7 12
SDA 15

INPUT
A0–A2 ; ADDRESS INPUT
SCL ; SYSTEM CLOCK LINE

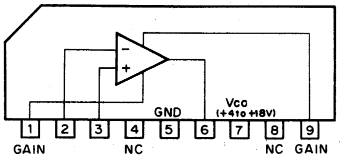
OUTPUT
$\overline{\text{INT}}$; INTERRUPT OUTPUT
SDA ; SERIAL DATA LINE

INPUT/OUTPUT
P0–P7 ; 8 BITS QUASI-BIDIRECTIONAL I/O PORT


INT 13
A0 1
A1 2
A2 3
SCL 14
SDA 15
VDD 16
Vss 8
INTERRUPT LOGIC
LP FILTER
PCF8574
PCF8574A
INPUT FILTER
I²C BUS CONTROL
SHIFT REGISTER
8 BIT
I/O PORTS
POWER-ON RESET
write pulse
read pulse
4 P0
5 P1
6 P2
7 P3
9 P4
10 P5
11 P6
12 P7

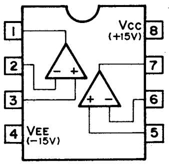
NJM386BS (JRC)

AUDIO POWER AMPLIFIER
– SIDE VIEW –


GND
Vcc (+4to+18V)
1 2 3 4 5 6 7 8 9
GAIN
NC
NC
GAIN

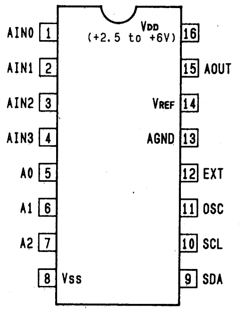
NJM4556M-A (JRC) FLAT PACKAGE

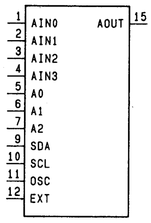
OPERATIONAL AMPLIFIER
(WIDE BAND, DECOMPENSATED)
– TOP VIEW –


1
2
3
4
VEE (−15V)
Vcc (+15V)
8
7
6
5

PCF8591T (PHILIPS)

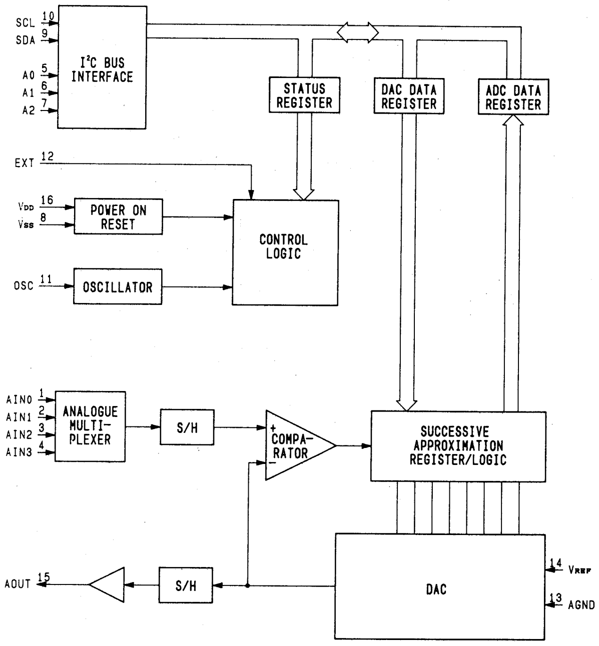
C-MOS 8-BIT A/D AND D/A CONVERTER
- TOP VIEW -


AIN0 1
AIN1 2
AIN2 3
AIN3 4
A0 5
A1 6
A2 7
8 Vss
VDD (+2.5 to +6V) 16
15 AOUT
VREF 14
AGND 13
12 EXT
11 OSC
10 SCL
9 SDA


1 AIN0
2 AIN1
3 AIN2
4 AIN3
5 A0
6 A1
7 A2
9 SDA
10 SCL
11 OSC
12 EXT
AOUT 15

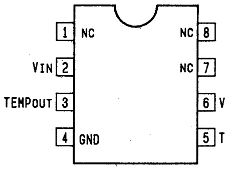
INPUT
A0–A2 ;HARDWARE ADDRESS
AIN0–AIN3 ;ANALOGUE INPUTS (A/D CONVERTER)
EXT ;EXTERNAL/INTERNAL SWITCH FOR OSCILLATOR INPUT
OSC ;OSCILLATOR INPUT/OUTPUT
SCL ;I²C BUS CLOCK INPUT/OUTPUT
SDA ;I²C BUS DATA INPUT/OUTPUT

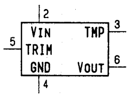
OUTPUT
AOUT ;ANALOGUE OUTPUT(D/A CONVERTER)


SCL 10
SDA 9
A0 5
A1 6
A2 7
I²C BUS INTERFACE
STATUS REGISTER
DAC DATA REGISTER
ADC DATA REGISTER
EXT 12
VDD 16
Vss 8
POWER ON RESET
CONTROL LOGIC
OSC 11
OSCILLATOR
AIN0 1
AIN1 2
AIN2 3
AIN3 4
ANALOGUE MULTI-PLEXER
S/H
+ COMPA-RATOR −
SUCCESSIVE APPROXIMATION REGISTER/LOGIC
AOUT 15
S/H
DAC
14 VREF
13 AGND

REF-03GS (PMI)

REFERENCE/TEMPERATURE TRANSDUCER
– TOP VIEW –

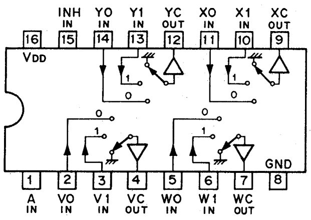

1 NC
VIN 2
TEMPOUT 3
4 GND
NC 8
NC 7
6 VOUT
5 TRIM

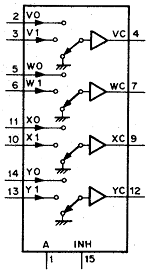

2
VIN
TMP 3
5 TRIM
GND
VOUT 6
4

VIN ; INPUT VOLTAGE(+4.5Vto+33V)
TEMPOUT ; TEMPERATURE TRANSDUCER VOLTAGE OUTPUT
TRIMIN ; OUTPUT SIGNAL TRIMMING
VOUT ; OUTPUT VOLTAGE(+2.5V)

SN74HC157ANS (TI) FLAT PACKAGE

C-MOS QUAD 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
– TOP VIEW –


INH IN
Y0 IN
Y1 IN
YC OUT
X0 IN
X1 IN
XC OUT
16
15
14
13
12
11
10
9
VDD
1
0
GND
1
2
3
4
5
6
7
8
A IN
V0 IN
V1 IN
VC OUT
W0 IN
W1 IN
WC OUT


2 V0
3 V1
VC 4
5 W0
6 W1
WC 7
11 X0
10 X1
XC 9
14 Y0
13 Y1
YC 12
A
INH
1
15

NOTE :

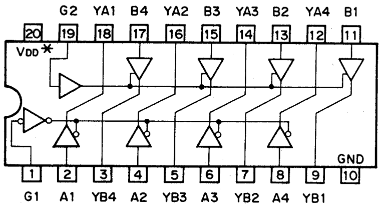
TYPE	VDD
74ACT157	+5V
TC74AC157P TC74AC157F	+2 to +5.5V
OTHER TYPES	+2 to +6V

CONT. IN		ON CHANNEL
INH	A	
0	0	0
0	1	1
1	X	GND

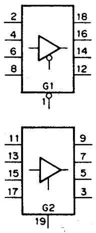
0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

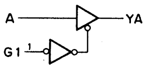
SN74HC241ANS (TI)

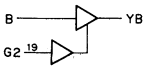
C-MOS 3-STATE NONINVERTING BUFFER/LINE DRIVER/LINE RECEIVER
– TOP VIEW –


G2
YA1
B4
YA2
B3
YA3
B2
YA4
B1
20
19
18
17
16
15
14
13
12
11
VDD*
GND
1
2
3
4
5
6
7
8
9
10
G1
A1
YB4
A2
YB3
A3
YB2
A4
YB1

* VDD
HC;+2 to +6V
HCT; +5V


2
4
6
8
18
16
14
12
G1
1
11
13
15
17
9
7
5
3
G2
19





G1	A	YA
0	0	0
0	1	1
1	X	HI-Z

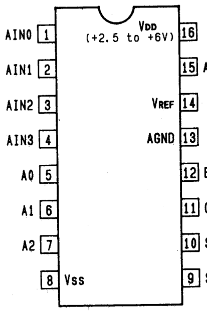
G2	B	YB
1	0	0
1	1	1
0	X	HI-Z

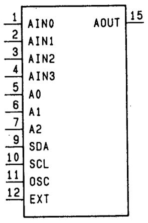
0;LOW LEVEL
1;HIGH LEVEL
X;DON'T CARE
HI-Z;HIGH IMPEDANCE

PCF8591T (PHILIPS)

C-MOS 8-BIT A/D AND D/A CONVERTER

– TOP VIEW –


AIN0 1
AIN1 2
AIN2 3
AIN3 4
A0 5
A1 6
A2 7
8 Vss
VDD (+2.5 to +6V) 16
15 AOUT
VREF 14
AGND 13
12 EXT
11 OSC
10 SCL
9 SDA


1 AIN0
2 AIN1
3 AIN2
4 AIN3
5 A0
6 A1
7 A2
9 SDA
10 SCL
11 OSC
12 EXT
AOUT 15

INPUT

A0–A2 ;HARDWARE ADDRESS

AIN0–AIN3 ;ANALOGUE INPUTS (A/D CONVERTER)

EXT ;EXTERNAL/INTERNAL SWITCH FOR OSCILLATOR INPUT

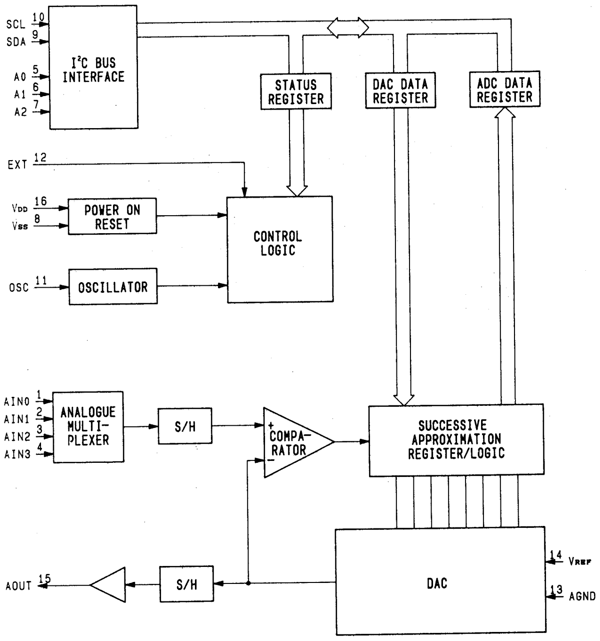
OSC ;OSCILLATOR INPUT/OUTPUT

SCL ;I²C BUS CLOCK INPUT/OUTPUT

SDA ;I²C BUS DATA INPUT/OUTPUT

OUTPUT

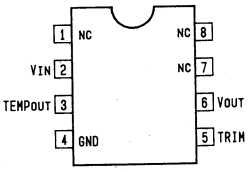
AOUT ;ANALOGUE OUTPUT(D/A CONVERTER)

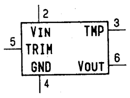

SCL 10
SDA 9
A0 5
A1 6
A2 7
I²C BUS INTERFACE
STATUS REGISTER
DAC DATA REGISTER
ADC DATA REGISTER
EXT 12
VDD 16
VSS 8
POWER ON RESET
CONTROL LOGIC
OSC 11
OSCILLATOR
AIN0 1
AIN1 2
AIN2 3
AIN3 4
ANALOGUE MULTI-PLEXER
S/H
+
COMPA-RATOR
–
SUCCESSIVE APPROXIMATION REGISTER/LOGIC
14 VREF
13 AGND
DAC
AOUT 15
S/H

REF-03GS (PMI)

REFERENCE/TEMPERATURE TRANSDUCER

– TOP VIEW –


1 NC
VIN 2
TEMPOUT 3
4 GND
NC 8
NC 7
6 VOUT
5 TRIM


2
VIN
TMP 3
5 TRIM
GND
VOUT 6
4

VIN ; INPUT VOLTAGE(+4.5Vto+33V)

TEMPOUT ; TEMPERATURE TRANSDUCER VOLTAGE OUTPUT

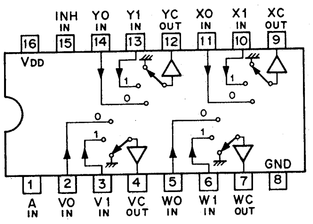
TRIMIN ; OUTPUT SIGNAL TRIMMING

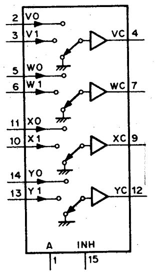
VOUT ; OUTPUT VOLTAGE(+2.5V)

SN74HC157ANS (TI) FLAT PACKAGE

C-MOS QUAD 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER

– TOP VIEW –


INH IN
Y0 IN
Y1 IN
YC OUT
X0 IN
X1 IN
XC OUT
16
15
14
13
12
11
10
9
VDD
GND
1
2
3
4
5
6
7
8
A IN
V0 IN
V1 IN
VC OUT
W0 IN
W1 IN
WC OUT
0
1


2 V0
3 V1
VC 4
5 W0
6 W1
WC 7
11 X0
10 X1
XC 9
14 Y0
13 Y1
YC 12
A
INH
1
15

NOTE :

TYPE	VDD
74ACT157	+5V
TC74AC157P TC74AC157F	+2 to +5.5V
OTHER TYPES	+2 to +6V

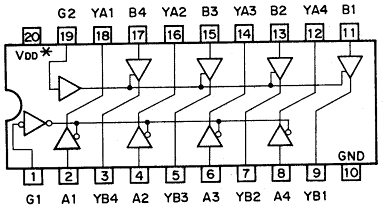
CONT. IN		ON CHANNEL
INH	A	
0	0	0
0	1	1
1	X	GND

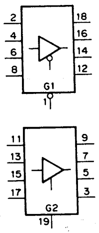
0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

SN74HC241ANS (TI)

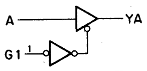
C-MOS 3-STATE NONINVERTING BUFFER/LINE DRIVER/LINE RECEIVER

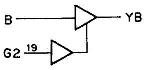
– TOP VIEW –


G2
YA1
B4
YA2
B3
YA3
B2
YA4
B1
20
19
18
17
16
15
14
13
12
11
VDD *
GND
1
2
3
4
5
6
7
8
9
10
G1
A1
YB4
A2
YB3
A3
YB2
A4
YB1


2
4
6
8
18
16
14
12
G1
1
11
13
15
17
9
7
5
3
G2
19

* VDD
HC;+2 to +6V
HCT; +5V





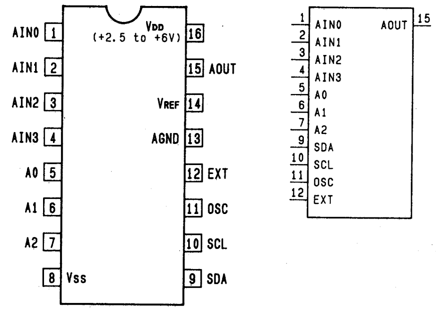
G1	A	YA
0	0	0
0	1	1
1	X	HI-Z

G2	B	YB
1	0	0
1	1	1
0	X	HI-Z

0;LOW LEVEL
1;HIGH LEVEL
X;DON'T CARE
HI-Z;HIGH IMPEDANCE

PCF8591T (PHILIPS)

C-MOS 8-BIT A/D AND D/A CONVERTER
- TOP VIEW -

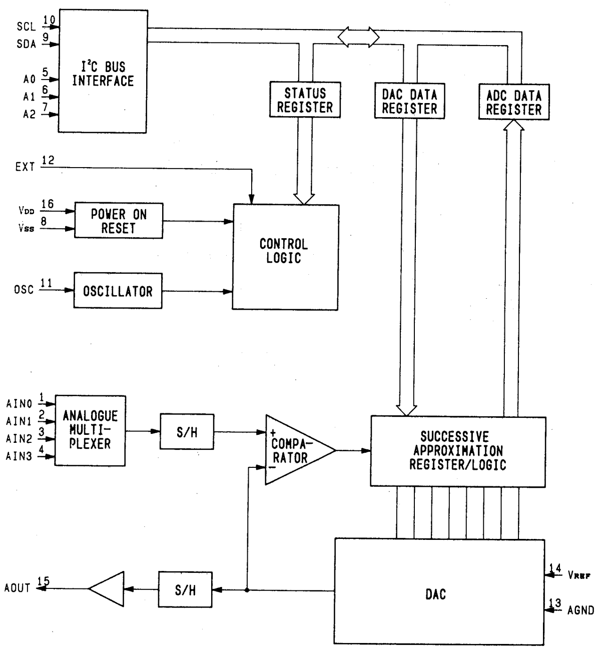

AIN0 1
AIN1 2
AIN2 3
AIN3 4
A0 5
A1 6
A2 7
8 Vss
VDD (+2.5 to +6V) 16
15 AOUT
VREF 14
AGND 13
12 EXT
11 OSC
10 SCL
9 SDA
1 AIN0
2 AIN1
3 AIN2
4 AIN3
5 A0
6 A1
7 A2
9 SDA
10 SCL
11 OSC
12 EXT
AOUT 15

INPUT

A0–A2	:HARDWARE ADDRESS
AIN0–AIN3	:ANALOGUE INPUTS (A/D CONVERTER)
EXT	:EXTERNAL/INTERNAL SWITCH FOR OSCILLATOR INPUT
OSC	:OSCILLATOR INPUT/OUTPUT
SCL	:I²C BUS CLOCK INPUT/OUTPUT
SDA	:I²C BUS DATA INPUT/OUTPUT

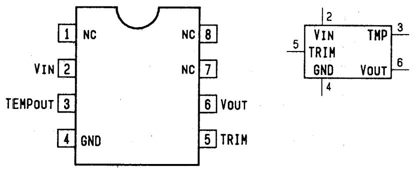
OUTPUT

AOUT	:ANALOGUE OUTPUT(D/A CONVERTER)


SCL 10
SDA 9
A0 5
A1 6
A2 7
I²C BUS INTERFACE
STATUS REGISTER
DAC DATA REGISTER
ADC DATA REGISTER
EXT 12
VDD 16
VSS 8
POWER ON RESET
CONTROL LOGIC
OSC 11
OSCILLATOR
AIN0 1
AIN1 2
AIN2 3
AIN3 4
ANALOGUE MULTI-PLEXER
S/H
+
COMPA-RATOR
−
SUCCESSIVE APPROXIMATION REGISTER/LOGIC
DAC
14 VREF
13 AGND
AOUT 15
S/H

REF-03GS (PMI)

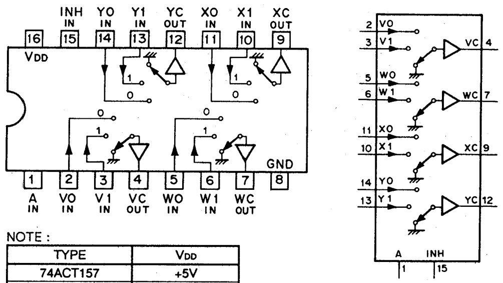
REFERENCE/TEMPERATURE TRANSDUCER
- TOP VIEW -


1 NC
VIN 2
TEMPOUT 3
4 GND
NC 8
NC 7
6 VOUT
5 TRIM
2
VIN
TMP 3
5 TRIM
GND
VOUT 6
4

VIN : INPUT VOLTAGE(+4.5Vto+33V)
TEMPOUT : TEMPERATURE TRANSDUCER VOLTAGE OUTPUT
TRIMIN : OUTPUT SIGNAL TRIMMING
VOUT : OUTPUT VOLTAGE(+2.5V)

SN74HC157ANS (TI) FLAT PACKAGE

C-MOS QUAD 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
- TOP VIEW -


INH IN 15
Y0 IN 14
Y1 IN 13
YC OUT 12
X0 IN 11
X1 IN 10
XC OUT 9
16 VDD
GND 8
A IN 1
V0 IN 2
V1 IN 3
VC OUT 4
W0 IN 5
W1 IN 6
WC OUT 7
2 V0
3 V1
VC 4
5 W0
6 W1
WC 7
11 X0
10 X1
XC 9
14 Y0
13 Y1
YC 12
A 1
INH 15

NOTE :

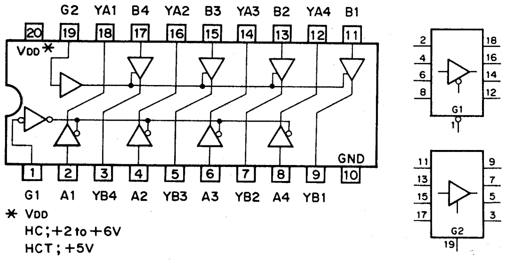
TYPE	VDD
74ACT157	+5V
TC74AC157P TC74AC157F	+2 to +5.5V
OTHER TYPES	+2 to +6V

0;LOW LEVEL
1;HIGH LEVEL
X;DON'T CARE

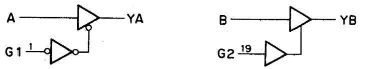
CONT. IN		ON CHANNEL
INH	A	
0	0	0
0	1	1
1	X	GND

SN74HC241ANS (TI)

C-MOS 3-STATE NONINVERTING BUFFER/LINE DRIVER/LINE RECEIVER
- TOP VIEW -


20 VDD*
G2 19
YA1 18
B4 17
YA2 16
B3 15
YA3 14
B2 13
YA4 12
B1 11
G1 1
A1 2
YB4 3
A2 4
YB3 5
A3 6
YB2 7
A4 8
YB1 9
GND 10
2 18
4 16
6 14
8 12
G1 1
11 9
13 7
15 5
17 3
G2 19

* VDD
HC;+2 to +6V
HCT;+5V


A
YA
G1 1
B
YB
G2 19

G1	A	YA
0	0	0
0	1	1
1	X	HI-Z

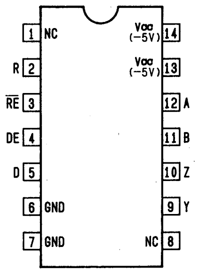
G2	B	YB
1	0	0
1	1	1
0	X	HI-Z

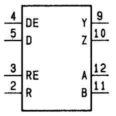
0;LOW LEVEL
1;HIGH LEVEL
X;DON'T CARE
HI-Z;HIGH IMPEDANCE

SN75ALS181NS (TI) FLAT PACKAGE

C-MOS DIFFERENTIAL LINE DRIVER/RECEIVER

– TOP VIEW –


1 NC
2 R
3 $\overline{RE}$
4 DE
5 D
6 GND
7 GND
8 NC
9 Y
10 Z
11 B
12 A
13 VDD (-5V)
14 VDD (-5V)

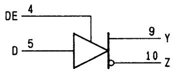

4 DE
5 D
3 RE
2 R
Y 9
Z 10
A 12
B 11

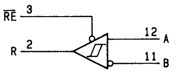
DRIVER CIRCUIT

INPUT D	ENABLE DE	OUTPUT	
		Y	Z
1	1	1	0
0	1	0	1
X	0	Z	Z

RECEIVER CIRCUIT

DIFFERENTIAL INPUT A–B	ENABLE RE	OUTPUT R
$V_{ID} \geqq 0.2V$	0	1
$-0.2V < V_{ID} < 0.2V$	0	?
$V_{ID} \leqq -0.2V$	0	0
X	1	Z

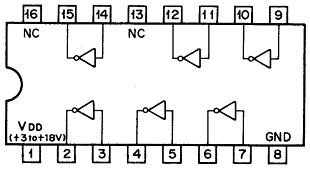

DE 4
D 5
9 Y
10 Z

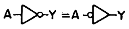

$\overline{RE}$ 3
R 2
12 A
11 B

TC4049BF (TOSHIBA) FLAT PACKAGE

C-MOS INVERTING TYPE BUFFER/CONVERTER

– TOP VIEW –


16 15 14 13 12 11 10 9
NC
NC
VDD (+3 to +18V)
GND
1 2 3 4 5 6 7 8



$Y = \overline{A}$

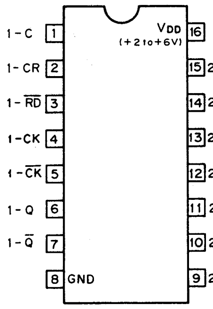
A	Y
0	1
1	0

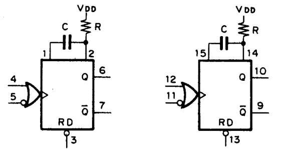
0; LOW LEVEL
1; HIGH LEVEL

TC74HC4538AF (TOSHIBA) FLAT PACKAGE

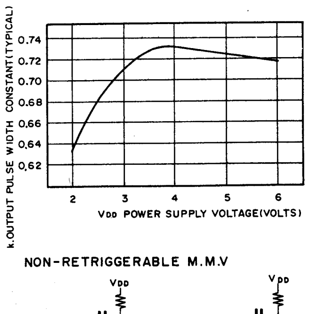
C - MOS DUAL RETRIGGERABLE / NON - RETRIGGERABLE MONOSTABLE MULTIVIBRATOR

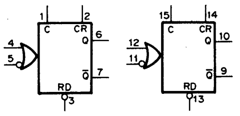
– TOP VIEW –


1-C 1
1-CR 2
1-$\overline{RD}$ 3
1-CK 4
1-$\overline{CK}$ 5
1-Q 6
1-$\overline{Q}$ 7
8 GND
VDD (+2 to +6V) 16
15 2-C
14 2-CR
13 2-$\overline{RD}$
12 2-CK
11 2-$\overline{CK}$
10 2-Q
9 2-$\overline{Q}$

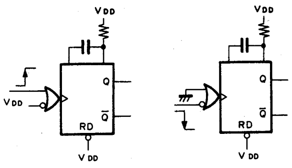

VDD
C
R
1
2
4
5
Q 6
$\overline{Q}$ 7
RD
3
VDD
C
R
15
14
12
11
Q 10
$\overline{Q}$ 9
RD
13

OUTPUT PULSE WIDTH = k·C·R

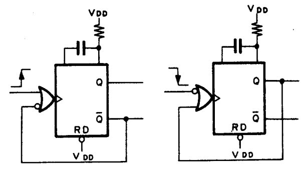



1
2
C
CR
Q 6
$\overline{Q}$ 7
4
5
RD
3
15
14
C
CR
Q 10
$\overline{Q}$ 9
12
11
RD
13

RETRIGGERABLE M.M.V


VDD
VDD
Q
$\overline{Q}$
RD
VDD
VDD

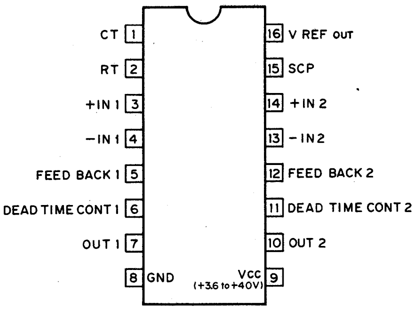
NON-RETRIGGERABLE M.M.V

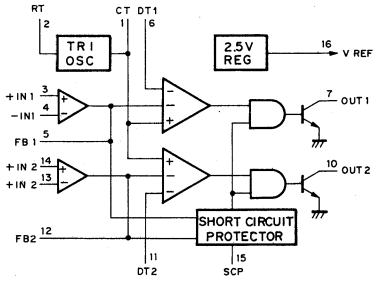

VDD
VDD
Q
$\overline{Q}$
RD
VDD
VDD

TL1451ACNS (TI) FLAT PACKAGE

DUAL PWM POWER CONTROLLER

– TOP VIEW –

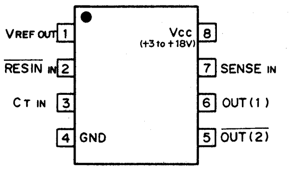

CT 1
RT 2
+IN 1 3
−IN 1 4
FEED BACK 1 5
DEAD TIME CONT 1 6
OUT 1 7
8 GND
Vcc (+3.6 to +40V) 9
10 OUT 2
11 DEAD TIME CONT 2
12 FEED BACK 2
13 − IN 2
14 + IN 2
15 SCP
16 V REF OUT

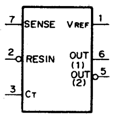

RT 2
CT 1
DT1 6
TRI OSC
2.5V REG
16 V REF
+IN 1 3
−IN1 4
FB 1 5
+IN 2 14
+IN 2 13
FB2 12
7 OUT 1
10 OUT 2
SHORT CIRCUIT PROTECTOR
11 DT2
15 SCP

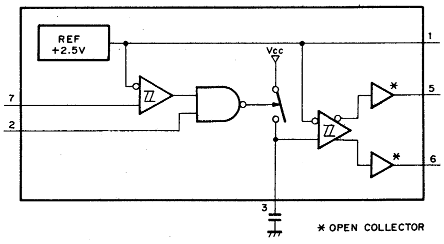
TL7705CPS-B (TI) FLAT PACKAGE

POWER VOLTAGE SUPERVISOR

– TOP VIEW –


VREF OUT 1
$\overline{RESIN}$ IN 2
CT IN 3
4 GND
Vcc (+3 to +18V) 8
7 SENSE IN
6 OUT(1)
5 $\overline{OUT(2)}$


7 SENSE
VREF 1
2 RESIN
OUT (1) 6
OUT (2) 5
3 CT

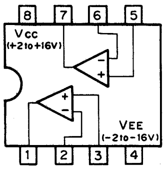

REF +2.5V
1
Vcc
7
2
5
6
3
*
*

* OPEN COLLECTOR

UPC4062G2 (NEC) FLAT PACKAGE

TTL-DUAL OPERATIONAL AMPLIFIER WITH LOW POWER CONSUMPTION

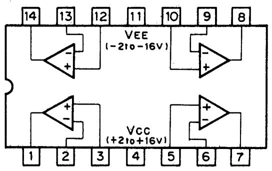
– TOP VIEW –


8 7 6 5
Vcc (+2 to +16V)
VEE (−2 to −16V)
1 2 3 4

UPC4064G (NEC) FLAT PACKAGE

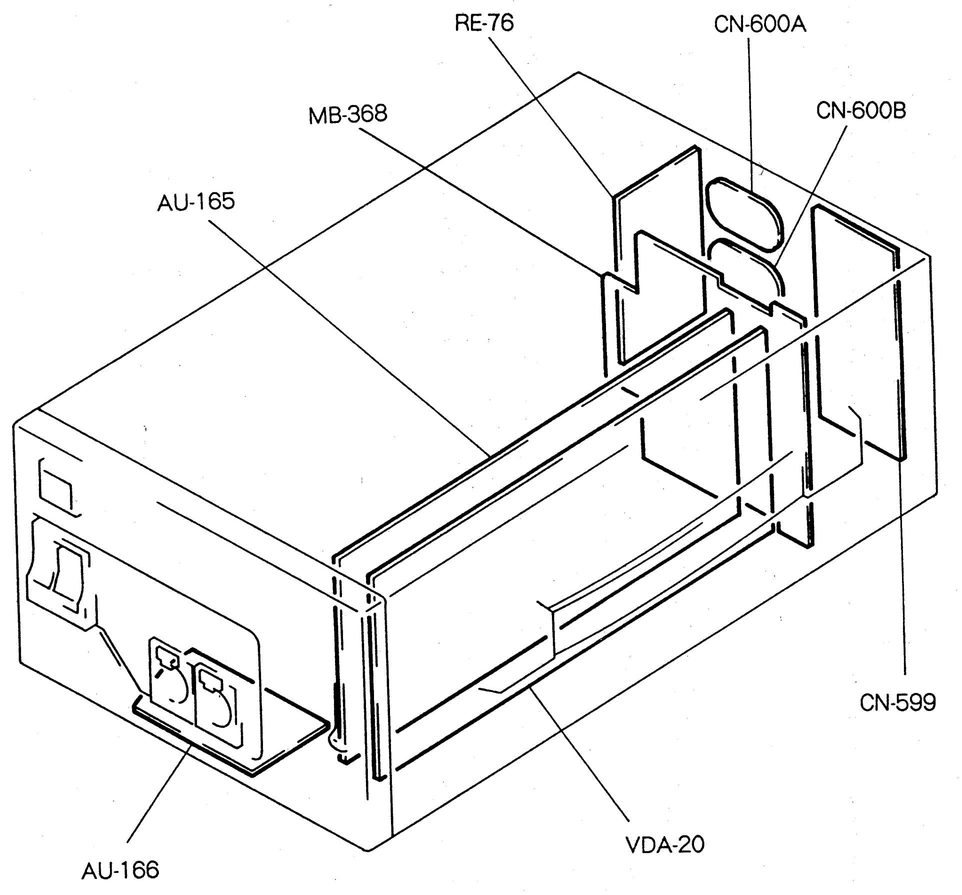
TTL-QUAD OPERATIONAL AMPLIFIER WITH LOW POWER CONSUMPTION

– TOP VIEW –


14 13 12 11 10 9 8
VEE (−2 to −16V)
Vcc (+2 to +16V)
1 2 3 4 5 6 7

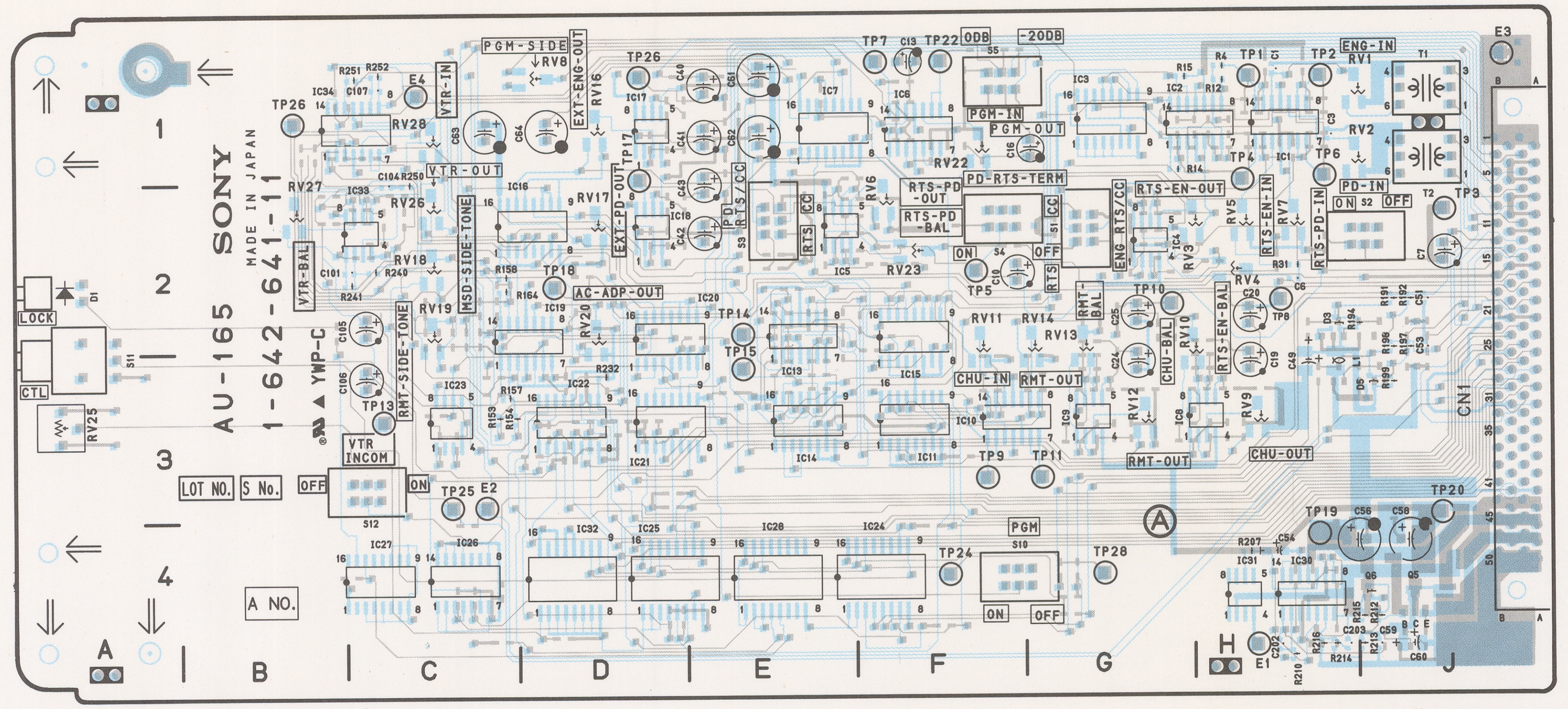
SECTION C
SCHEMATIC DIAGRAMS AND BOARD ILLUSTRATION

BOARD LAYOUT

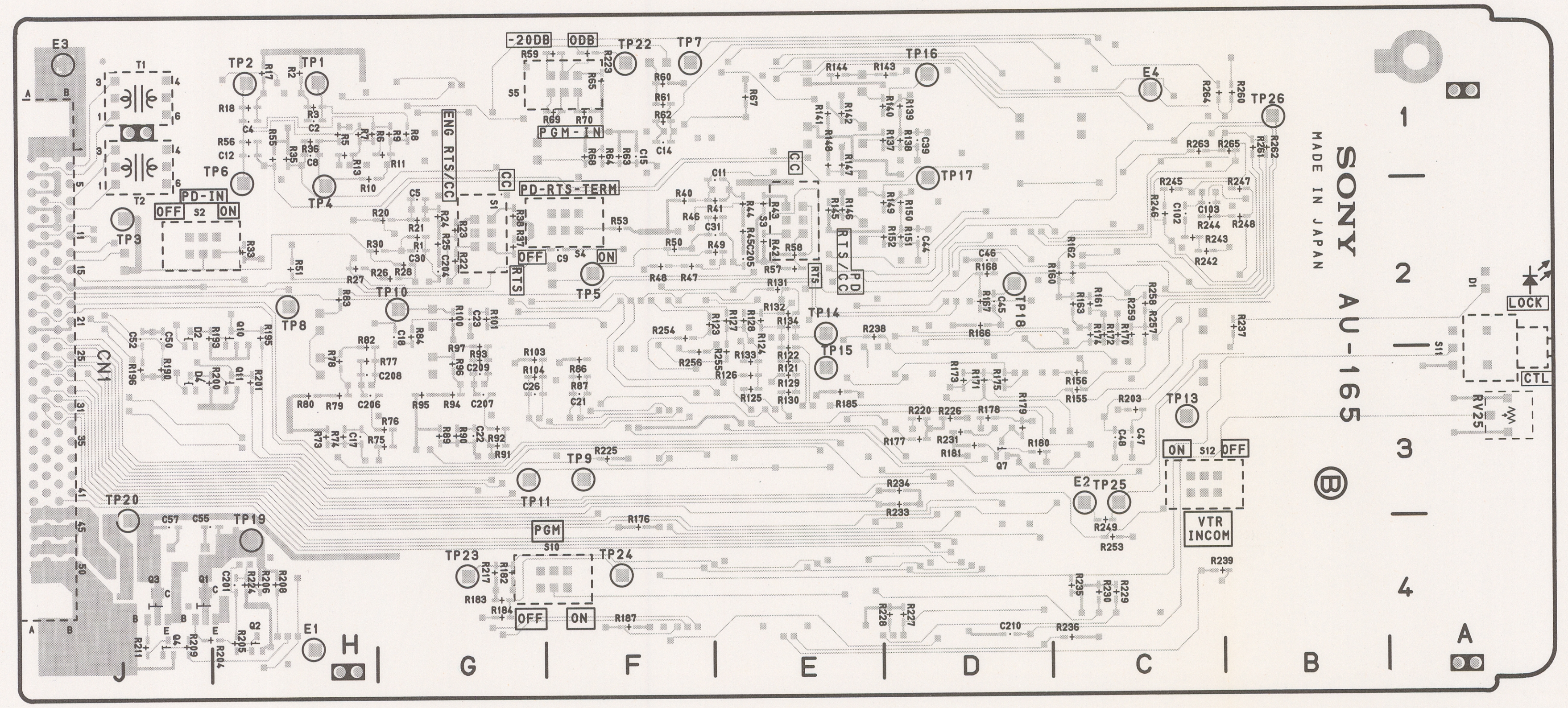

RE-76
CN-600A
MB-368
CN-600B
AU-165
CN-599
VDA-20
AU-166

AU-165 BOARD

Serial No. 10001 – 10100


SONY
MADE IN JAPAN
AU-165
1-642-641-11
YMP-C
LOT NO.
S No.
A NO.
1
2
3
4
A
B
C
D
E
F
G
H
J
CN1
E3
LOCK
CTL

1-642-621-11 COMPONENT SIDE


SONY
MADE IN JAPAN
AU-165
1
2
3
4
A
B
C
D
E
F
G
H
J
CN1
E3
LOCK
CTL

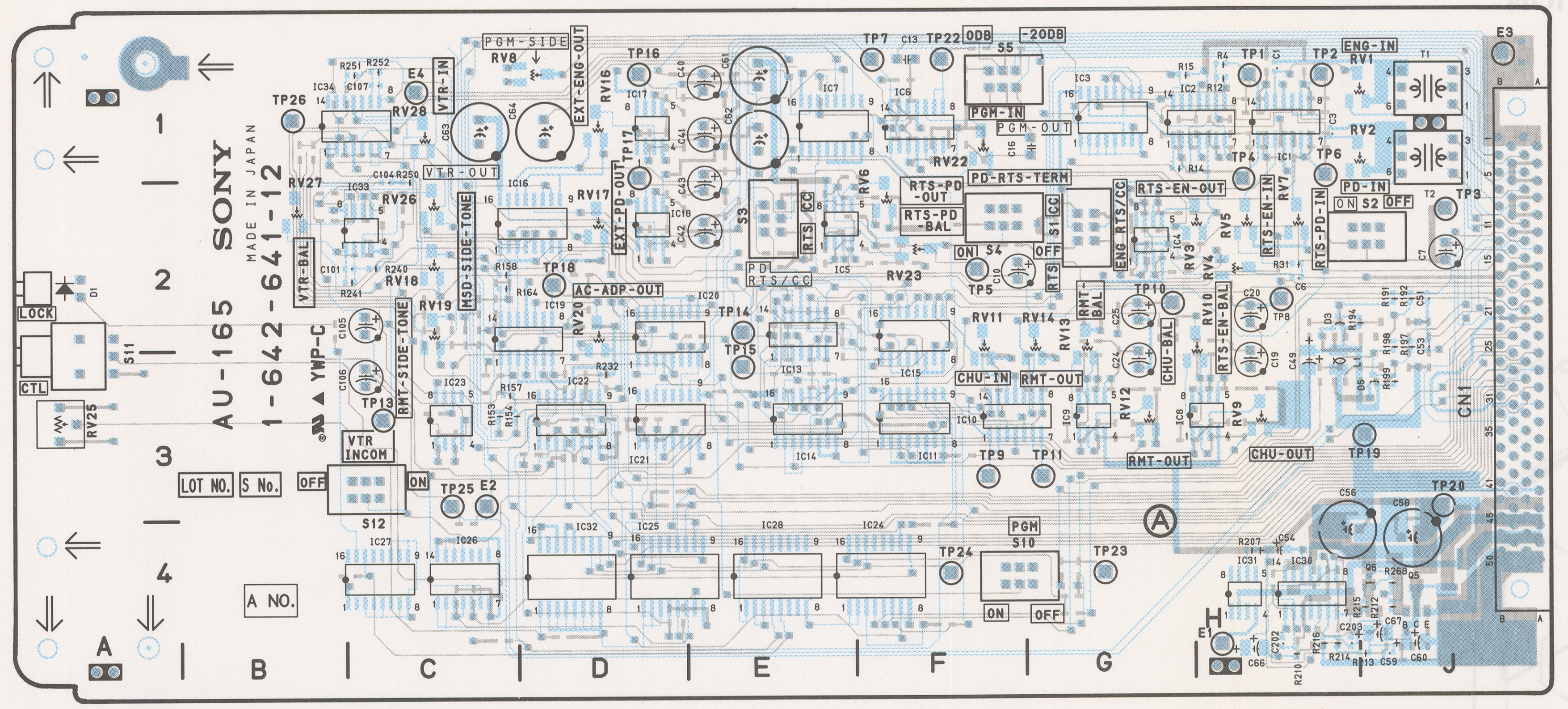
1-642-621-11 SOLDERING SIDE

AU-165 1-642-641-11

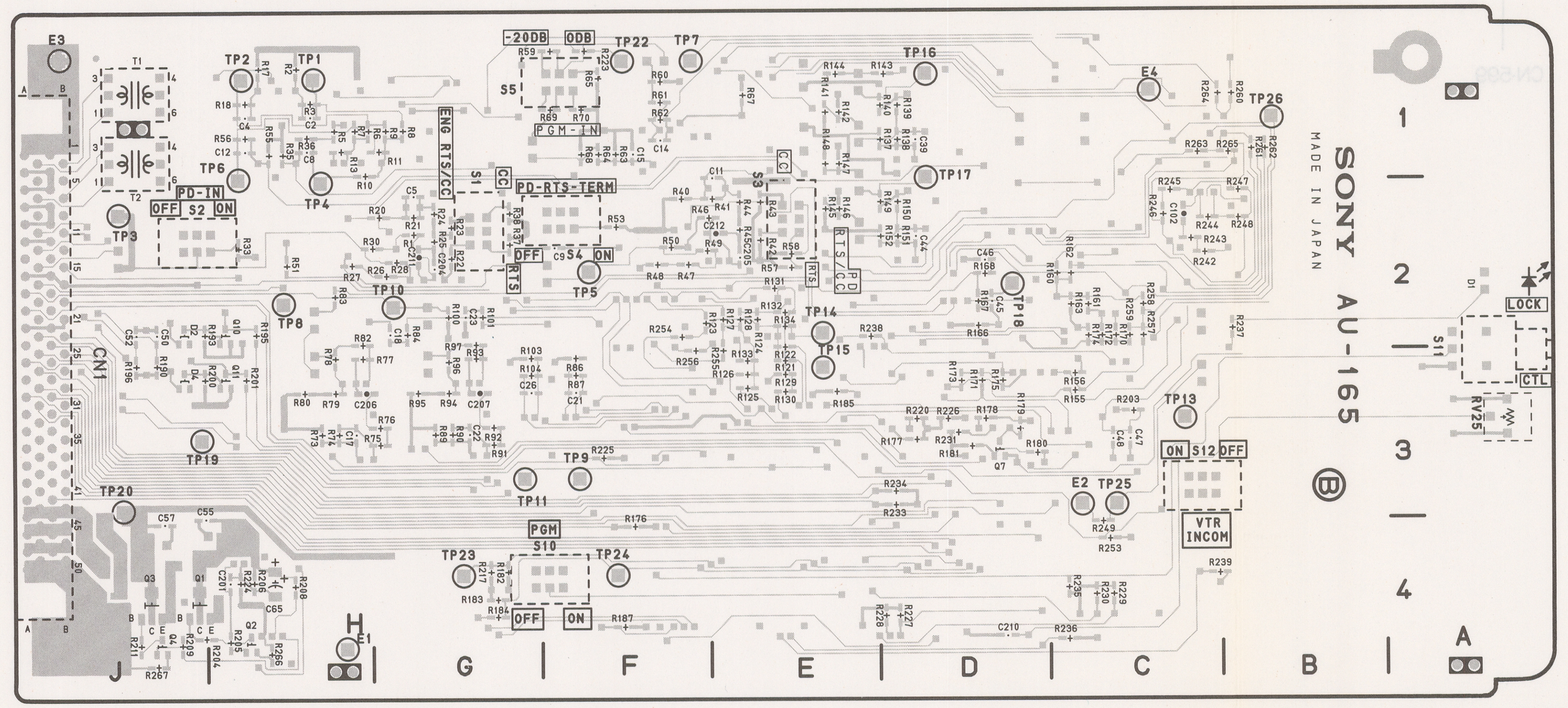
*Soldering Side

CN1	J-3
D1	A-2
*D2	J-2
D3	H-2
*D4	J-3
D5	J-3
E1	H-4
E2	C-3
E3	J-1
E4	C-1
IC1	H-1
IC2	G-1
IC3	G-1
IC4	G-2
IC5	E-2
IC6	F-1
IC7	E-1
IC8	G-3
IC9	G-3
IC10	F-3
IC11	F-3
IC13	E-2
IC14	E-3
IC15	F-3
IC16	C-2
IC17	D-1
IC18	D-2
IC19	D-2
IC20	D-2
IC21	D-3
IC22	D-3
IC23	C-3
IC24	F-4
IC25	D-4
IC26	C-4
IC27	C-4
IC28	E-4
IC30	H-4
IC31	H-4
IC32	D-4
IC33	C-2
IC34	B-1
*Q1	J-4
*Q2	H-4
*Q3	J-4
*Q4	J-4
Q5	J-4
Q6	J-4
*Q7	D-3
*Q10	H-2
*Q11	H-3
RV1	J-1
RV2	J-1
RV3	G-2
RV4	H-2
RV5	H-2
RV6	F-2
RV7	H-2
RV8	D-1
RV9	H-3
RV10	G-2
RV11	F-2
RV12	G-3
RV13	G-2
RV14	G-2
RV16	D-1
RV17	D-2
RV18	C-2
RV19	C-2
RV20	D-2
RV22	F-1
RV23	F-2
RV25	A-3
RV26	C-2
RV27	B-2
RV28	C-1
S1	G-2
S2	J-2
S3	E-2
S4	F-2
S5	F-1
S10	F-4
S11	A-2
S12	C-3
T1	J-1
T2	J-2
TP1	H-1
TP2	H-1
TP3	J-2
TP4	H-1
TP5	F-2
TP6	H-1
TP7	F-1
TP8	H-2
TP9	F-3
TP10	G-2
TP11	G-3
TP13	C-3
TP14	E-2
TP15	E-3
TP16	D-1
TP17	D-1
TP18	D-2
TP19	H-4
TP20	J-3
TP22	F-1
TP23	G-4
TP24	F-4
TP25	C-3
TP26	B-1

Serial No. 10101 –


SONY
MADE IN JAPAN
AU-165
1-642-641-12
YMP-C
LOT NO.
S No.
A NO.
1
2
3
4
A
B
C
D
E
F
G
H
J
CN1
E3
LOCK
CTL

1-642-621-12 COMPONENT SIDE


SONY
MADE IN JAPAN
AU-165
1
2
3
4
A
B
C
D
E
F
G
H
J
CN1
E3
LOCK
CTL

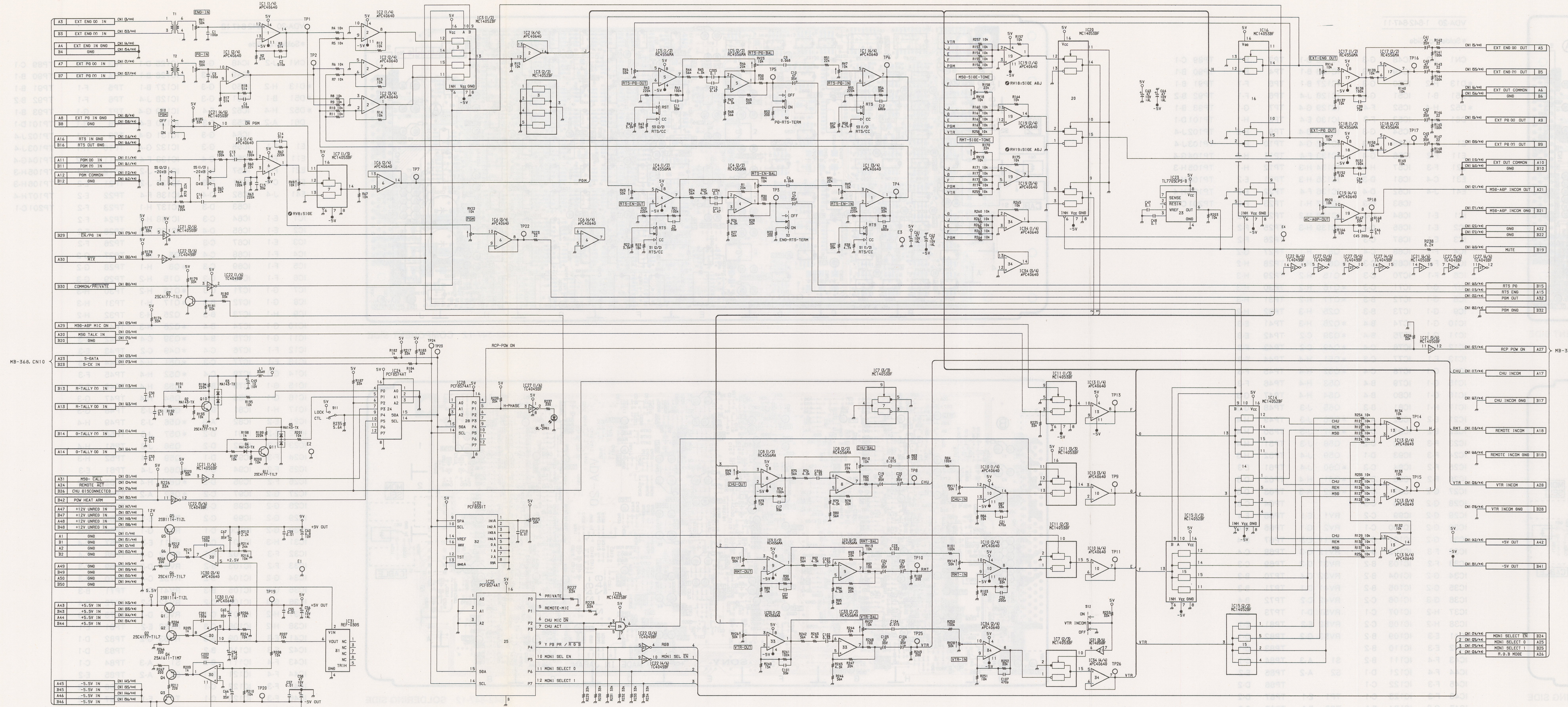
1-642-621-12 SOLDERING SIDE

AU-165 1-642-641-12

*Soldering Side

CN1	J-3
D1	A-2
*D2	J-2
D3	H-2
*D4	J-3
D5	J-3
E1	H-4
E2	C-3
E3	J-1
E4	C-1
IC1	H-1
IC2	G-1
IC3	G-1
IC4	G-2
IC5	E-2
IC6	F-1
IC7	E-1
IC8	G-3
IC9	G-3
IC10	F-3
IC11	F-3
IC13	E-3
IC14	E-3
IC15	F-3
IC16	D-2
IC17	D-1
IC18	D-2
IC19	D-2
IC20	D-2
IC21	D-3
IC22	D-3
IC23	C-3
IC24	F-4
IC25	D-4
IC26	C-4
IC27	C-4
IC28	E-4
IC30	H-4
IC31	H-4
IC32	D-4
IC33	C-2
IC34	B-1
*Q1	J-4
*Q2	H-4
*Q3	J-4
*Q4	J-4
Q5	J-4
Q6	J-4
*Q7	D-3
*Q10	H-2
*Q11	H-3
RV1	J-1
RV2	J-1
RV3	G-2
RV4	H-2
RV5	H-2
RV6	F-2
RV7	H-2
RV8	C-1
RV9	H-3
RV10	H-2
RV11	F-2
RV12	G-3
RV13	G-2
RV14	G-2
RV16	D-1
RV17	D-2
RV18	C-2
RV19	C-2
RV20	D-2
RV22	F-1
RV23	F-2
RV25	A-3
RV26	C-2
RV27	B-2
RV28	C-1
S1	G-2
S2	J-2
S3	E-2
S4	F-2
S5	F-1
S10	F-4
S11	A-2
S12	C-3
T1	J-1
T2	J-2
TP1	H-1
TP2	H-1
TP3	J-2
TP4	H-1
TP5	F-2
TP6	H-1
TP7	F-1
TP8	H-2
TP9	F-3
TP10	G-2
TP11	G-3
TP13	C-3
TP14	E-2
TP15	E-3
TP16	D-1
TP17	D-1
TP18	D-2
TP19	J-3
TP20	J-3
TP22	F-1
TP23	G-4
TP24	F-4
TP25	C-3
TP26	B-1

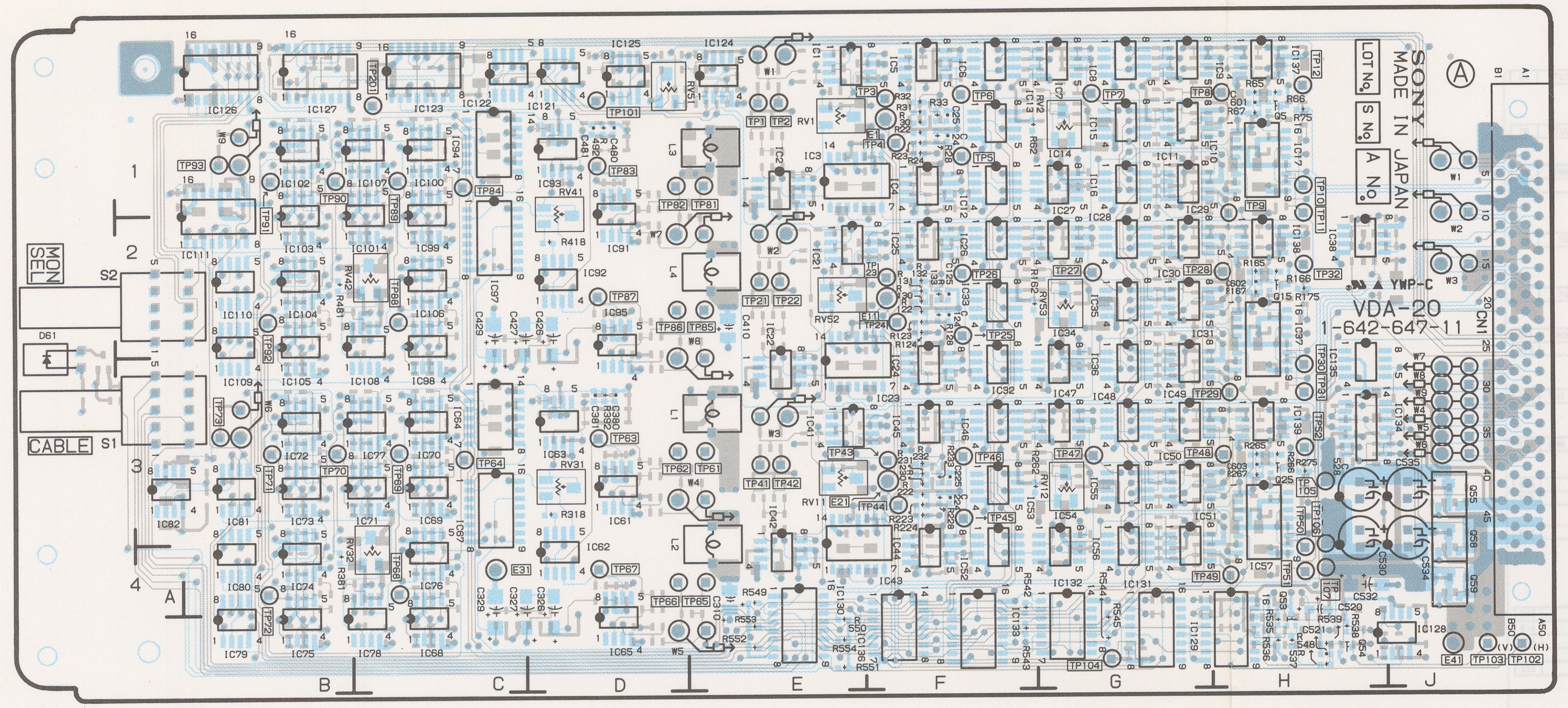
AU-165 BOARD


A3 EXT ENG (X) IN
B3 EXT ENG (Y) IN
A4 EXT ENG IN GND
B4 GND
A7 EXT PD (X) IN
B7 EXT PD (Y) IN
A8 EXT PD IN GND
B8 GND
A16 RTS IN GND
B16 RTS OUT GND
A11 PGM (X) IN
B11 PGM (Y) IN
A12 PGM COMMON
B12 GND
B29 EN/PD IN
A30 MIX
B30 COMMON/PRIVATE
A29 MSD-ADP MIC ON
A20 MSD TALK IN
B20 GND
MB-368, CN10
A23 S-DATA
B23 S-CK IN
B13 R-TALLY (Y) IN
A13 R-TALLY (X) IN
B14 G-TALLY (Y) IN
A14 G-TALLY (X) IN
A31 MSD- CALL
A24 REMOTE ACT
B26 CHU DISCONNECTED
B42 POW HEAT ARM
A47 +12V UNREG IN
B47 +12V UNREG IN
A48 +12V UNREG IN
B48 +12V UNREG IN
A1 GND
B1 GND
A2 GND
B2 GND
A49 GND
B49 GND
A50 GND
B50 GND
A43 +5.5V IN
B43 +5.5V IN
A44 +5.5V IN
B44 +5.5V IN
A45 -5.5V IN
B45 -5.5V IN
A46 -5.5V IN
B46 -5.5V IN
ENG-IN
PD-IN
T1
T2
RV1 50k
RV2 50k
S10 PGM
S5 (2/2) -20dB 0dB
S5 (1/2) -20dB 0dB
Q7 2SC4177-T1L7
Q10 2SC4177-T1L7
Q5 2SB1114-T1ZL
Q6 2SC4177-T1L7
Q1 2SB1114-T1ZL
Q2 2SC4177-T1L7
Q4 2SA1611-T1M7
Q3 2SD1614-T1XL
IC21 MC14050BF
IC22 TC4049BF
IC27 TC4049BF
IC13 µPC4064G
EXT ENG (X) OUT A5
EXT ENG (Y) OUT B5
EXT OUT COMMON A6
GND B6
EXT PD (X) OUT A9
EXT PD (Y) OUT B9
EXT OUT COMMON A10
GND B10
MSD-ADP INCOM OUT A21
MSD-ADP INCOM GND B21
GND A22
GND B22
MUTE B19
RTS PD B15
RTS ENG A15
PGM OUT A32
PGM GND B32
RCP POW ON A27
MB-368, CN10
CHU INCOM A17
CHU INCOM GND B17
REMOTE INCOM A18
REMOTE INCOM GND B18
VTR INCOM A28
VTR INCOM GND B28
+5V OUT A42
-5V OUT B41
MONI SELECT EN B24
MONI SELECT 0 A25
MONI SELECT 1 B25
R.G.B MODE A26
TP14
TP15
TP16
TP17

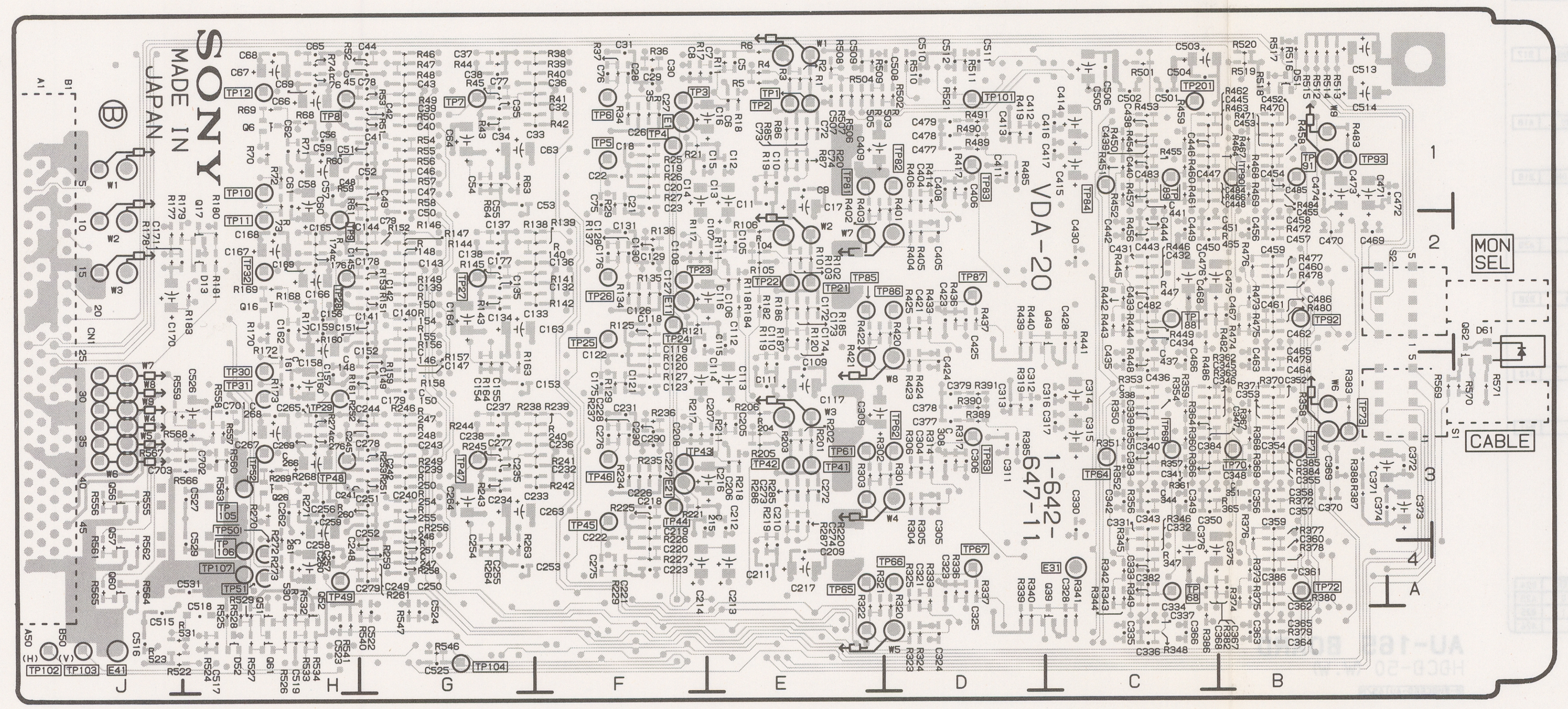
AU-165 BOARD
HDCD-50 (W.W)
B-¥HDCD50-AU165/M

VDA-20 BOARD

Serial No. 10001 – 10100



1-642-647-11 COMPONENT SIDE



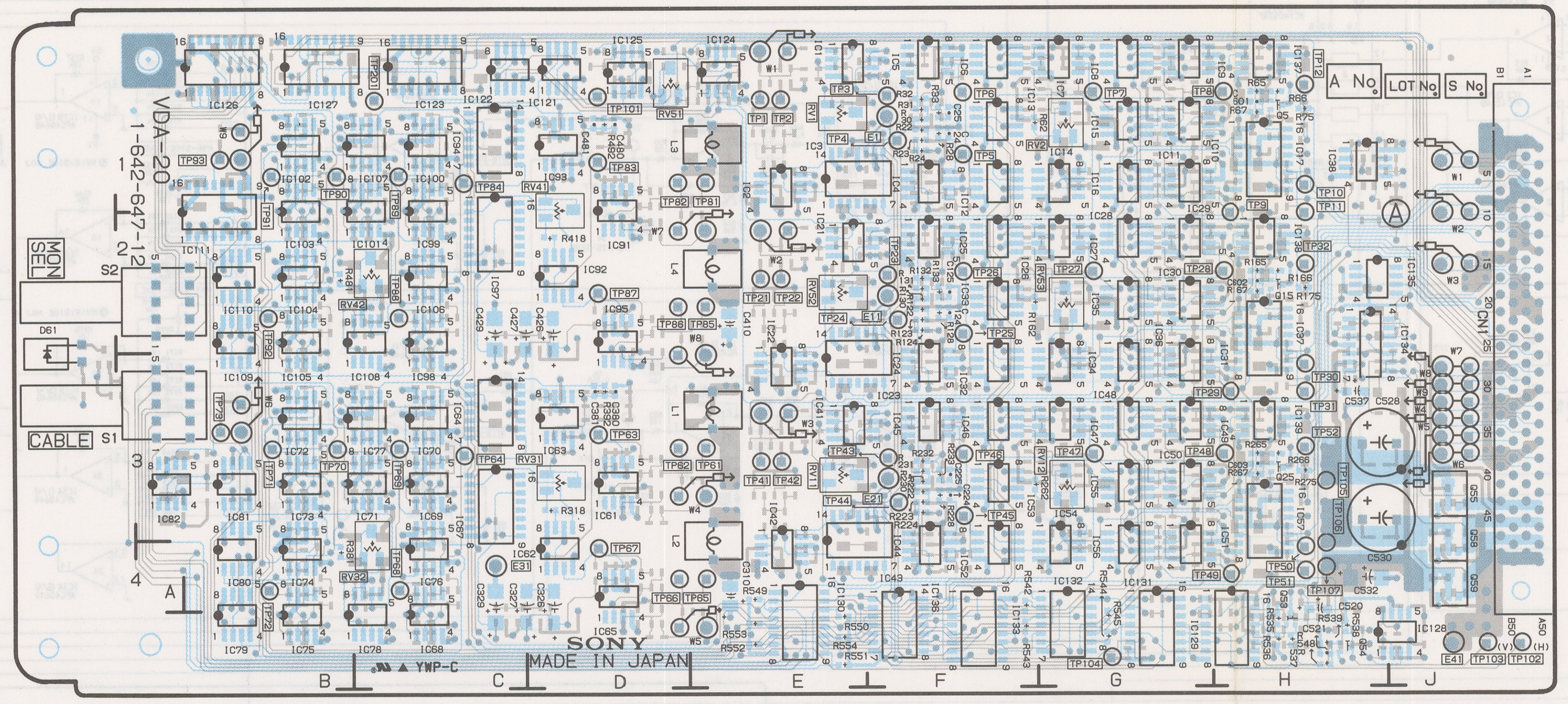
1-642-647-11 SOLDERING SIDE

VDA-20 1-642-647-11

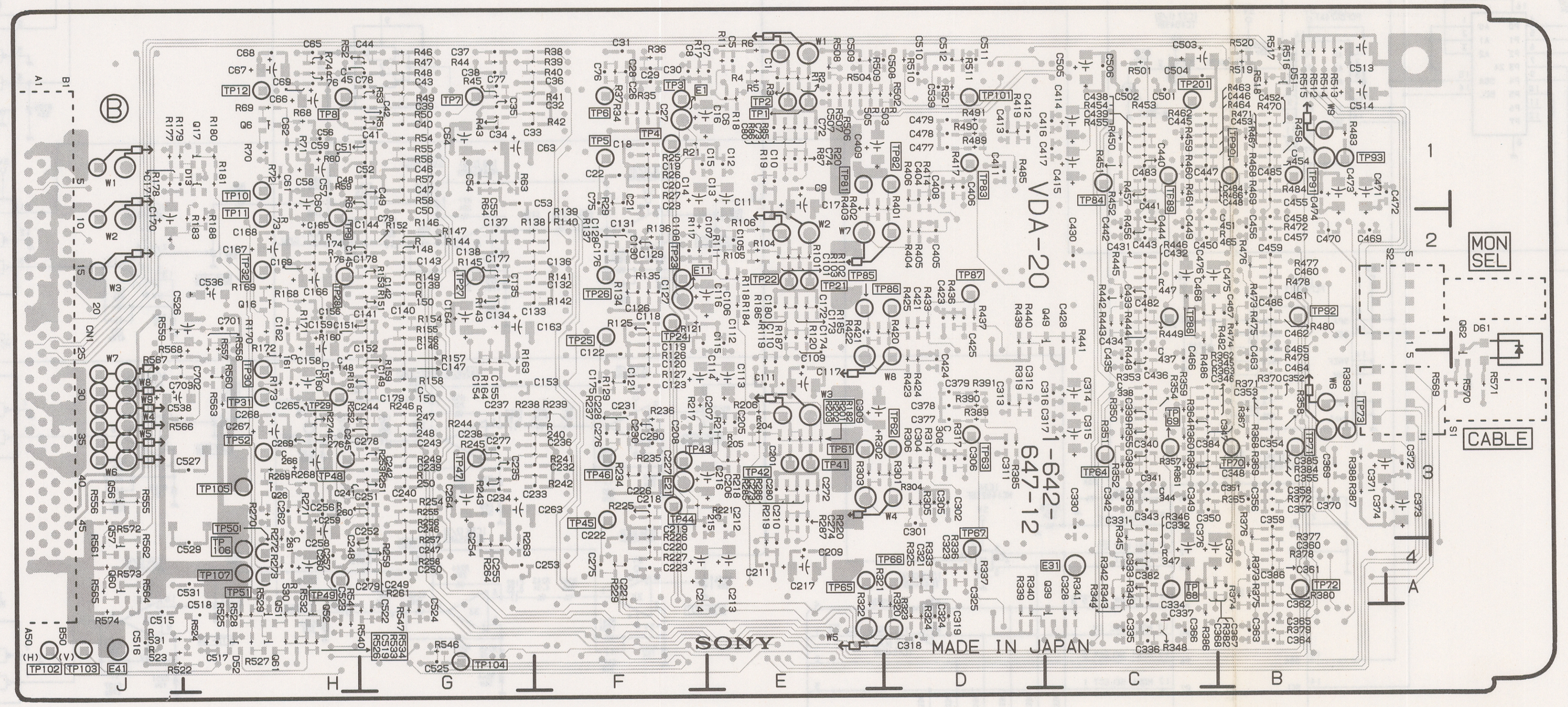
∗Soldering Side

CN1	J-2	IC48	G-3	IC125	D-1	TP3	F-1	TP89	C-1
		IC49	G-3	IC126	B-1	TP4	F-1	TP90	B-1
∗D13	H-2	IC50	G-3	IC127	B-1	TP5	F-1	TP91	B-1
∗D51	B-1	IC51	G-3	IC128	J-4	TP6	F-1	TP92	B-2
∗D52	H-4	IC52	F-4	IC129	G-4	TP7	G-1	TP93	B-1
D61	A-2	IC53	F-3	IC130	E-4	TP8	H-1	TP101	D-1
		IC54	G-3	IC131	G-4	TP9	H-2	TP102	J-4
E1	F-1	IC55	G-3	IC132	G-4	TP10	H-1	TP103	J-4
E11	F-2	IC56	G-4	IC133	F-4	TP11	H-2	TP104	G-4
E21	F-3	IC57	H-4	IC134	H-3	TP12	H-1	TP105	H-3
E31	C-4	IC61	D-3	IC135	H-3	TP21	E-2	TP106	H-4
E41	J-4	IC62	D-4	IC136	F-4	TP22	E-2	TP107	H-4
		IC63	D-3	IC137	H-1	TP23	F-2	TP201	C-1
IC1	E-1	IC64	C-3	IC138	H-2	TP24	F-2		
IC2	E-1	IC65	D-4	IC139	H-3	TP25	F-2		
IC3	E-1	IC67	C-3			TP26	F-2		
IC4	F-1	IC68	C-4	Q5	H-1	TP27	G-2		
IC5	F-1	IC69	C-3	∗Q6	H-1	TP28	H-2		
IC6	F-1	IC70	C-3	Q15	H-2	TP29	H-3		
IC7	G-1	IC71	C-3	∗Q16	H-2	TP30	H-3		
IC8	G-1	IC72	B-3	∗Q17	H-2	TP31	H-3		
IC9	G-1	IC73	B-3	Q25	H-3	TP32	H-2		
IC10	G-1	IC74	B-4	∗Q26	H-3	TP41	E-3		
IC11	G-1	IC75	B-4	∗Q39	C-2	TP42	E-3		
IC12	F-1	IC76	C-4	∗Q49	C-2	TP43	F-3		
IC13	F-1	IC77	C-3	∗Q51	H-4	TP44	F-3		
IC14	G-1	IC78	C-4	∗Q52	H-4	TP45	F-3		
IC15	G-1	IC79	B-4	Q53	H-4	TP46	F-3		
IC16	G-1	IC80	B-4	Q54	H-4	TP47	G-3		
IC17	H-1	IC81	B-3	Q55	J-3	TP48	G-3		
IC21	E-2	IC82	A-3	∗Q56	J-3	TP49	H-4		
IC22	E-2	IC91	D-2	∗Q57	J-3	TP50	H-4		
IC23	F-3	IC92	D-2	Q58	J-3	TP51	H-4		
IC24	F-3	IC93	D-1	Q59	J-4	TP52	H-3		
IC25	F-2	IC94	C-3	∗Q60	J-4	TP61	E-3		
IC26	F-2	IC95	D-2	∗Q61	H-4	TP62	D-3		
IC27	G-2	IC97	C-2	∗Q62	A-3	TP63	D-3		
IC28	G-2	IC98	C-3			TP64	C-3		
IC29	G-2	IC99	C-2	RV1	E-1	TP65	E-4		
IC30	G-2	IC100	C-1	RV2	G-1	TP66	D-4		
IC31	G-2	IC101	C-2	RV11	E-3	TP67	D-4		
IC32	F-3	IC102	B-1	RV12	G-3	TP68	C-4		
IC33	F-2	IC103	B-2	RV31	D-3	TP69	C-3		
IC34	G-2	IC104	B-2	RV32	C-4	TP70	B-3		
IC35	G-2	IC105	B-2	RV41	D-1	TP71	B-3		
IC36	G-3	IC106	C-2	RV42	C-2	TP72	B-4		
IC37	H-2	IC107	C-1	RV51	D-1	TP73	B-3		
IC38	H-2	IC108	C-2	RV52	E-2	TP81	E-1		
IC41	E-3	IC109	B-2	RV53	G-2	TP82	D-1		
IC42	E-3	IC110	B-2			TP83	D-1		
IC43	F-4	IC111	B-2	S1	A-3	TP84	C-1		
IC44	F-4	IC121	D-1	S2	A-2	TP85	E-2		
IC45	F-3	IC122	C-1			TP86	D-2		
IC46	F-3	IC123	C-1	TP1	E-1	TP87	D-2		
IC47	G-3	IC124	E-1	TP2	E-1	TP88	C-2		

Serial No. 10101 –



1-642-647-12 COMPONENT SIDE



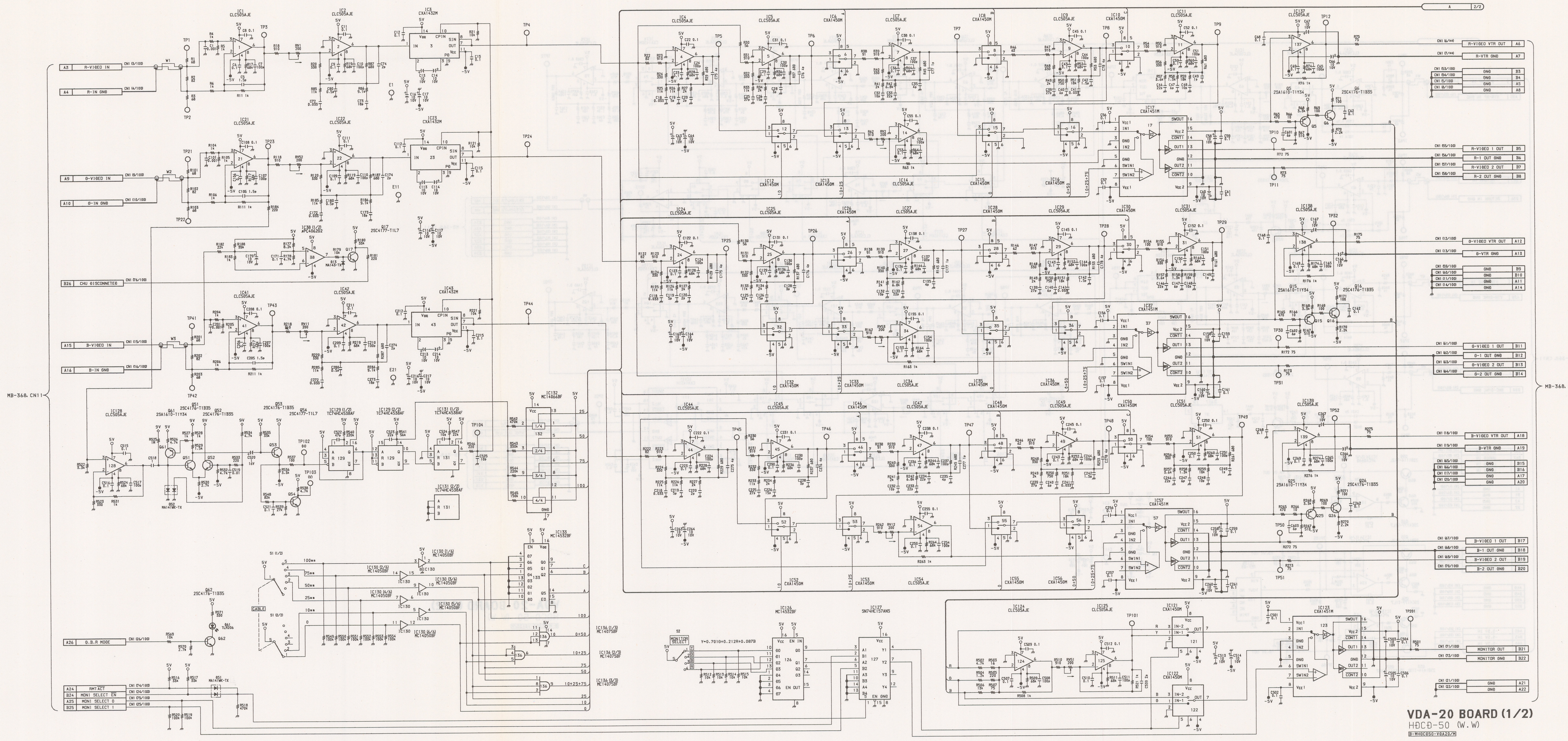
1-642-647-12 SOLDERING SIDE

VDA-20 1-642-647-12

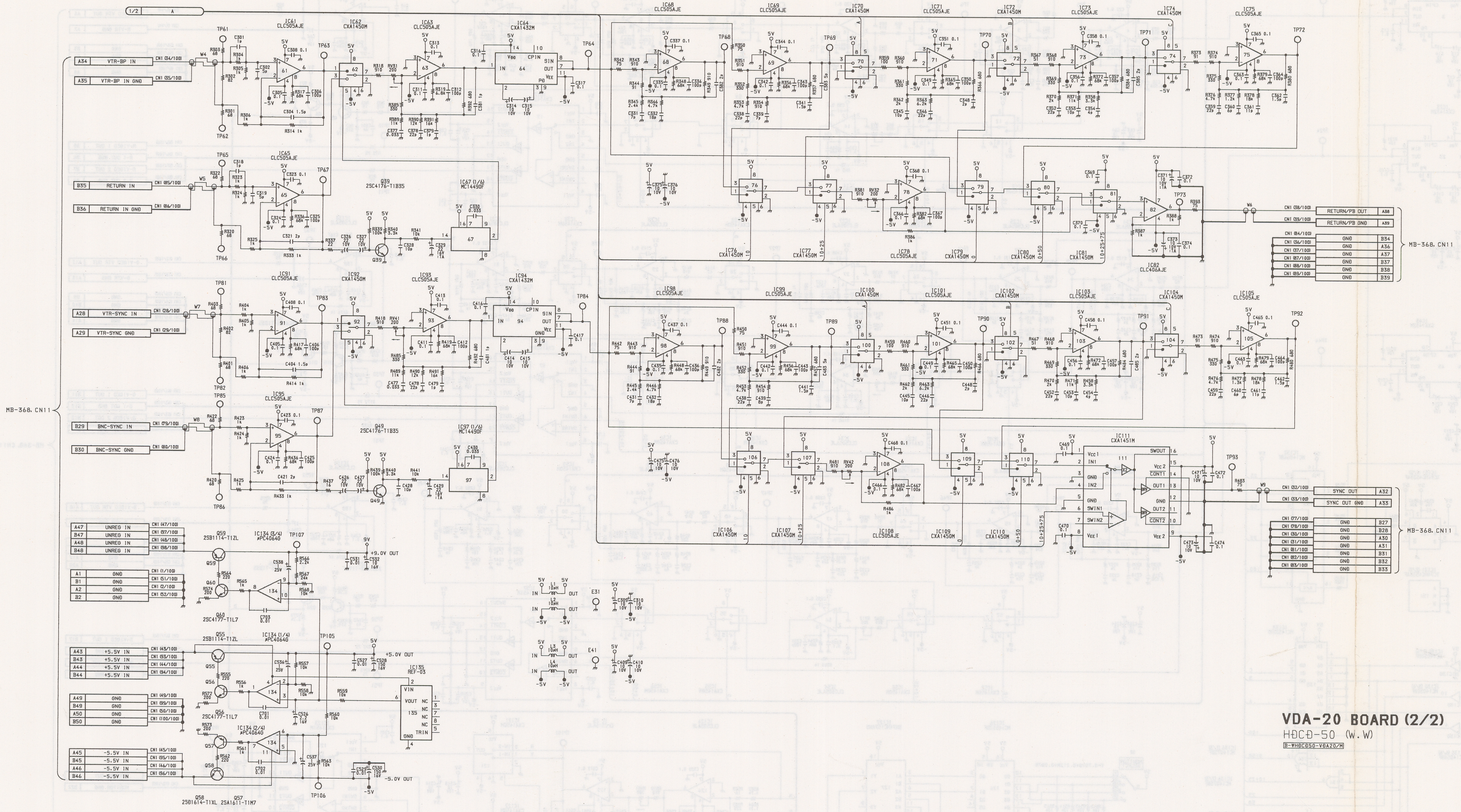
∗Soldering Side

CN1	J-2	IC48	G-3	IC125	D-1	TP3	E-1	TP89	C-1
		IC49	G-3	IC126	B-1	TP4	F-1	TP90	B-1
∗D13	H-2	IC50	G-3	IC127	B-1	TP5	F-1	TP91	B-1
∗D51	B-1	IC51	G-3	IC128	J-4	TP6	F-1	TP92	B-2
∗D52	H-4	IC52	F-4	IC129	G-4	TP7	G-1	TP93	B-1
D61	A-2	IC53	F-3	IC130	E-4	TP8	G-1	TP101	D-1
		IC54	G-3	IC131	G-4	TP9	H-1	TP102	J-4
E1	F-1	IC55	G-3	IC132	G-4	TP10	H-1	TP103	J-4
E11	F-2	IC56	G-4	IC133	F-4	TP11	H-2	TP104	G-4
E21	F-3	IC57	H-4	IC134	J-2	TP12	H-1	TP105	H-3
E31	C-4	IC61	D-3	IC135	J-2	TP21	E-2	TP106	H-3
E41	J-4	IC62	D-4	IC136	F-4	TP22	E-2	TP107	H-4
		IC63	D-3	IC137	H-1	TP23	F-2	TP201	C-1
IC1	E-1	IC64	C-3	IC138	H-2	TP24	F-2		
IC2	E-1	IC65	D-4	IC139	H-3	TP25	F-2		
IC3	E-1	IC67	C-3			TP26	F-2		
IC4	F-1	IC68	C-4	Q5	H-1	TP27	G-2		
IC5	F-1	IC69	C-3	∗Q6	H-1	TP28	G-2		
IC6	F-1	IC70	C-3	Q15	H-2	TP29	G-3		
IC7	G-1	IC71	C-3	∗Q16	H-2	TP30	H-3		
IC8	G-1	IC72	B-3	∗Q17	H-1	TP31	H-3		
IC9	H-1	IC73	B-3	Q25	H-3	TP32	H-2		
IC10	G-1	IC74	B-4	∗Q26	H-3	TP41	E-3		
IC11	G-1	IC75	B-4	∗Q39	C-4	TP42	E-3		
IC12	F-1	IC76	C-4	∗Q49	C-2	TP43	E-3		
IC13	F-1	IC77	C-3	∗Q51	H-4	TP44	F-3		
IC14	G-1	IC78	C-4	∗Q52	H-4	TP45	F-3		
IC15	G-1	IC79	B-4	Q53	H-4	TP46	F-3		
IC16	G-1	IC80	B-4	Q54	H-4	TP47	G-3		
IC17	H-1	IC81	B-3	Q55	J-3	TP48	G-3		
IC21	E-2	IC82	A-3	∗Q56	J-3	TP49	H-4		
IC22	E-2	IC91	D-2	∗Q57	J-3	TP50	H-4		
IC23	F-3	IC92	D-2	Q58	J-3	TP51	H-4		
IC24	F-3	IC93	D-1	Q59	J-4	TP52	H-3		
IC25	F-2	IC94	C-1	∗Q60	J-4	TP61	E-3		
IC26	F-2	IC95	D-2	∗Q61	H-4	TP62	D-3		
IC27	G-2	IC97	C-2	∗Q62	A-2	TP63	D-3		
IC28	G-2	IC98	C-3			TP64	C-3		
IC29	G-2	IC99	C-2	RV1	E-1	TP65	E-4		
IC30	G-2	IC100	C-1	RV2	G-1	TP66	D-4		
IC31	H-3	IC101	C-2	RV11	E-3	TP67	D-4		
IC32	F-3	IC102	B-1	RV12	G-3	TP68	C-4		
IC33	F-2	IC103	B-2	RV31	D-3	TP69	C-3		
IC34	G-2	IC104	B-2	RV32	C-4	TP70	B-3		
IC35	G-2	IC105	B-3	RV41	D-1	TP71	B-3		
IC36	G-3	IC106	C-2	RV42	C-2	TP72	B-4		
IC37	H-2	IC107	C-1	RV51	D-1	TP73	B-3		
IC38	H-2	IC108	C-3	RV52	E-2	TP81	E-1		
IC41	E-3	IC109	B-3	RV53	G-2	TP82	D-1		
IC42	E-3	IC110	B-2			TP83	D-1		
IC43	F-4	IC111	B-2	S1	A-3	TP84	C-1		
IC44	F-4	IC121	D-1	S2	A-2	TP85	E-2		
IC45	F-3	IC122	C-1			TP86	D-2		
IC46	F-3	IC123	C-1	TP1	E-1	TP87	D-2		
IC47	G-3	IC124	E-1	TP2	E-1	TP88	C-2		

VDA-20 BOARD (1/2)


A3 R-VIDEO IN CN1 (3/100)
A4 R-IN GND CN1 (4/100)
A9 G-VIDEO IN CN1 (9/100)
A10 G-IN GND CN1 (10/100)
B26 CHU DISCONNETED CN1 (76/100)
A15 B-VIDEO IN CN1 (15/100)
A16 B-IN GND CN1 (16/100)
MB-368, CN11
A26 G.B.R MODE CN1 (26/100)
A24 RMT ACT CN1 (74/100)
B24 MONI SELECT EN CN1 (24/100)
A25 MONI SELECT 0 CN1 (75/100)
B25 MONI SELECT 1 CN1 (25/100)
CABLE
A 2/2
CN1 (6/**) R-VIDEO VTR OUT A6
CN1 (7/**) R-VTR GND A7
CN1 (53/100) GND B3
CN1 (54/100) GND B4
CN1 (5/100) GND A5
CN1 (8/100) GND A8
CN1 (55/100) R-VIDEO 1 OUT B5
CN1 (56/100) R-1 OUT GND B6
CN1 (57/100) R-VIDEO 2 OUT B7
CN1 (58/100) R-2 OUT GND B8
CN1 (12/100) G-VIDEO VTR OUT A12
CN1 (13/100) G-VTR GND A13
CN1 (59/100) GND B9
CN1 (60/100) GND B10
CN1 (11/100) GND A11
CN1 (14/100) GND A14
CN1 (61/100) G-VIDEO 1 OUT B11
CN1 (62/100) G-1 OUT GND B12
CN1 (63/100) G-VIDEO 2 OUT B13
CN1 (64/100) G-2 OUT GND B14
MB-368, CN11
CN1 (18/100) B-VIDEO VTR OUT A18
CN1 (19/100) B-VTR GND A19
CN1 (65/100) GND B15
CN1 (66/100) GND B16
CN1 (17/100) GND A17
CN1 (20/100) GND A20
CN1 (67/100) B-VIDEO 1 OUT B17
CN1 (68/100) B-1 OUT GND B18
CN1 (69/100) B-VIDEO 2 OUT B19
CN1 (70/100) B-2 OUT GND B20
CN1 (71/100) MONITOR OUT B21
CN1 (72/100) MONITOR GND B22
CN1 (21/100) GND A21
CN1 (22/100) GND A22
VDA-20 BOARD (1/2)
HDCD-50 (W.W)
B-¥HDCD50-VDA20/M

VDA-20 BOARD (2/2)

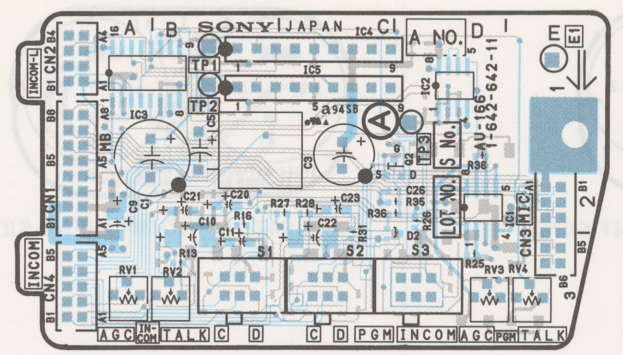

A34 VTR-BP IN CN1 (34/100)
A35 VTR-BP IN GND CN1 (35/100)
B35 RETURN IN CN1 (85/100)
B36 RETURN IN GND CN1 (86/100)
A28 VTR-SYNC IN CN1 (28/100)
A29 VTR-SYNC GND CN1 (29/100)
B29 BNC-SYNC IN CN1 (79/100)
B30 BNC-SYNC GND CN1 (80/100)
MB-368, CN11
A47 UNREG IN CN1 (47/100)
B47 UNREG IN CN1 (97/100)
A48 UNREG IN CN1 (48/100)
B48 UNREG IN CN1 (98/100)
A1 GND CN1 (1/100)
B1 GND CN1 (51/100)
A2 GND CN1 (2/100)
B2 GND CN1 (52/100)
A43 +5.5V IN CN1 (43/100)
B43 +5.5V IN CN1 (93/100)
A44 +5.5V IN CN1 (44/100)
B44 +5.5V IN CN1 (94/100)
A49 GND CN1 (49/100)
B49 GND CN1 (99/100)
A50 GND CN1 (50/100)
B50 GND CN1 (100/100)
A45 -5.5V IN CN1 (45/100)
B45 -5.5V IN CN1 (95/100)
A46 -5.5V IN CN1 (46/100)
B46 -5.5V IN CN1 (96/100)
Q59 2SB1114-T1ZL
Q60 2SC4177-T1L7
Q55 2SB1114-T1ZL
Q56 2SC4177-T1L7
Q58 2SD1614-T1XL
Q57 2SA1611-T1M7
IC134 (3/4) μPC4064G
IC134 (2/4) μPC4064G
IC135 REF-03
+9.0V OUT
+5.0V OUT
-5.0V OUT
IC61 CLC505AJE
IC62 CXA1450M
IC63 CLC505AJE
IC64 CXA1452M
IC65 CLC505AJE
IC67 (1/4) MC14490F
Q39 2SC4176-T1B35
IC91 CLC505AJE
IC92 CXA1450M
IC93 CLC505AJE
IC94 CXA1452M
IC95 CLC505AJE
IC97 (1/4) MC14490F
Q49 2SC4176-T1B35
IC68 CLC505AJE
IC69 CLC505AJE
IC70 CXA1450M
IC71 CLC505AJE
IC72 CXA1450M
IC73 CLC505AJE
IC74 CXA1450M
IC75 CLC505AJE
IC76 CXA1450M
IC77 CXA1450M
IC78 CLC505AJE
IC79 CXA1450M
IC80 CXA1450M
IC81 CXA1450M
IC82 CLC406AJE
IC98 CLC505AJE
IC99 CLC505AJE
IC100 CXA1450M
IC101 CLC505AJE
IC102 CXA1450M
IC103 CLC505AJE
IC104 CXA1450M
IC105 CLC505AJE
IC106 CXA1450M
IC107 CXA1450M
IC108 CLC505AJE
IC109 CXA1450M
IC110 CXA1450M
IC111 CXA1451M
TP61 TP62 TP63 TP64 TP65 TP66 TP67 TP68 TP69 TP70 TP71 TP72 TP73
TP81 TP82 TP83 TP84 TP85 TP86 TP87 TP88 TP89 TP90 TP91 TP92 TP93
TP105 TP106 TP107
CN1 (38/100) RETURN/PB OUT A38
CN1 (39/100) RETURN/PB GND A39
CN1 (84/100) GND B34
CN1 (36/100) GND A36
CN1 (37/100) GND A37
CN1 (87/100) GND B37
CN1 (88/100) GND B38
CN1 (89/100) GND B39
MB-368, CN11
CN1 (32/100) SYNC OUT A32
CN1 (33/100) SYNC OUT GND A33
CN1 (77/100) GND B27
CN1 (78/100) GND B28
CN1 (30/100) GND A30
CN1 (31/100) GND A31
CN1 (81/100) GND B31
CN1 (82/100) GND B32
CN1 (83/100) GND B33
MB-368, CN11
E31
E41

VDA-20 BOARD (2/2)
HDCD-50 (W.W)

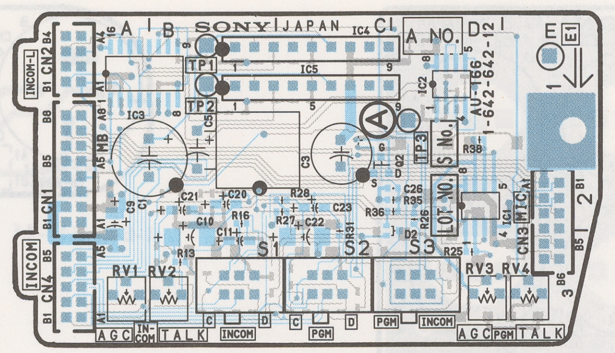
1
2
3
4
5
C-6
C-6
C-6
A
B
C
D
E
F
G
H
I
J
K
L

AU-166 BOARD Serial No. 10001 – 10100

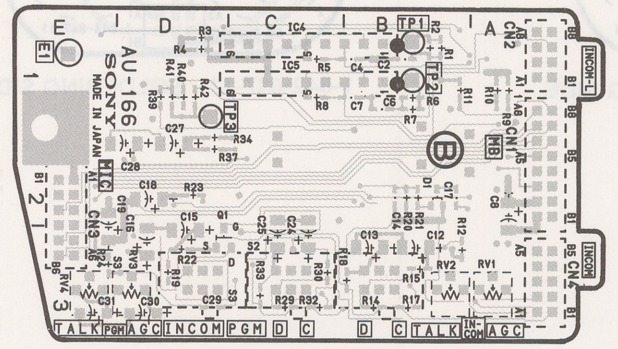
Serial No. 10101 –


SONY JAPAN
A
B
C
D
E
A NO.
AU-166
1-642-642-11
RV1
RV2
RV3
S1
S2
INCOM
PGM
TALK
AGC

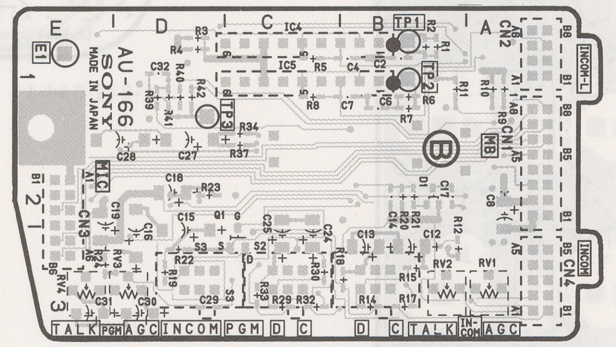
1-642-642-11 COMPONENT SIDE


SONY JAPAN
A
B
C
D
E
A NO.
AU-166
1-642-642-12
RV1
RV2
RV3
S1
S2
INCOM
PGM
TALK
AGC

1-642-642-12 COMPONENT SIDE

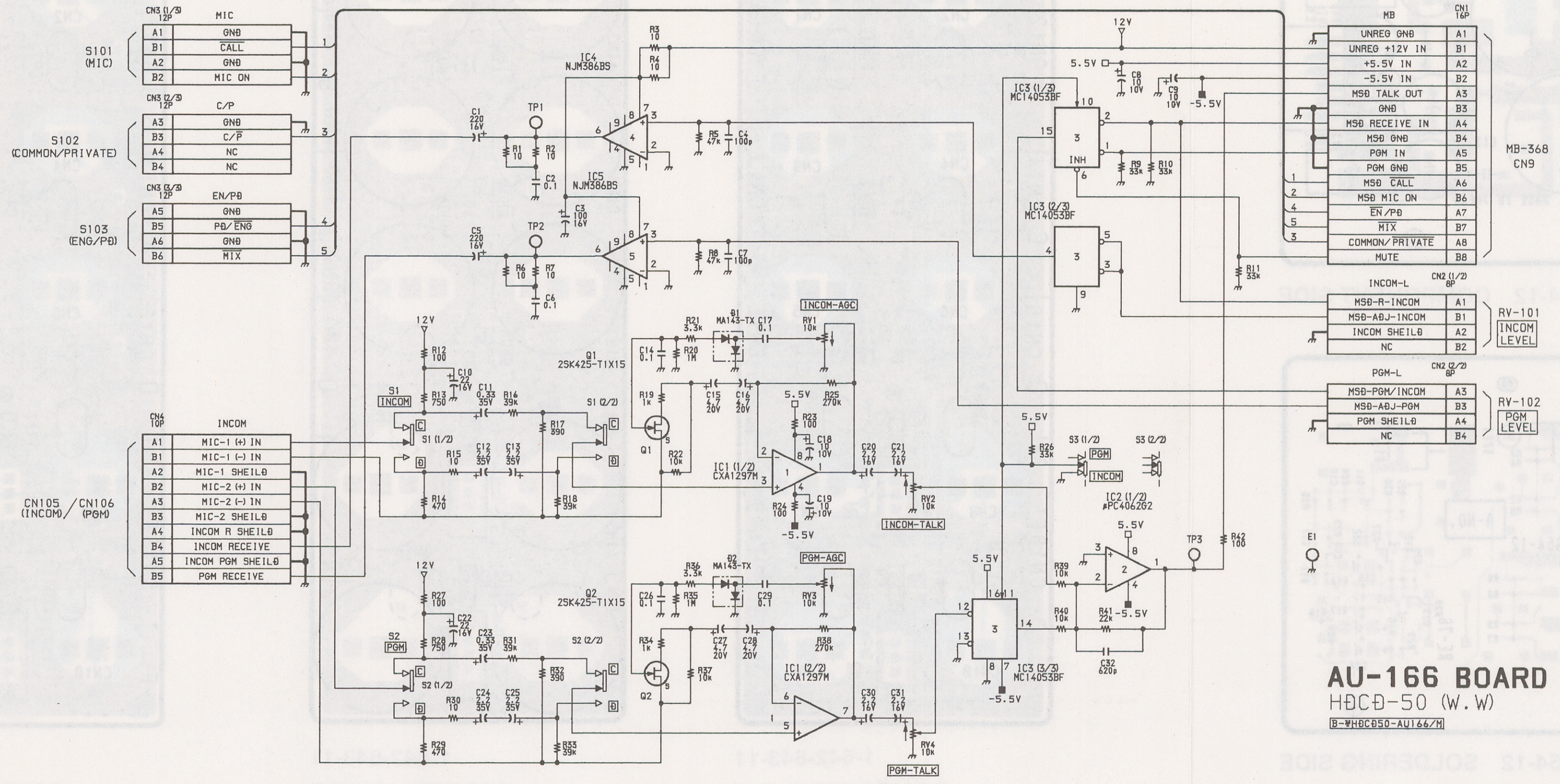

A
B
C
D
E
AU-166
1
2
3
TALK
AGC
INCOM
PGM

1-642-642-11 SOLDERING SIDE


A
B
C
D
E
AU-166
1
2
3
TALK
AGC
INCOM
PGM

1-642-642-12 SOLDERING SIDE

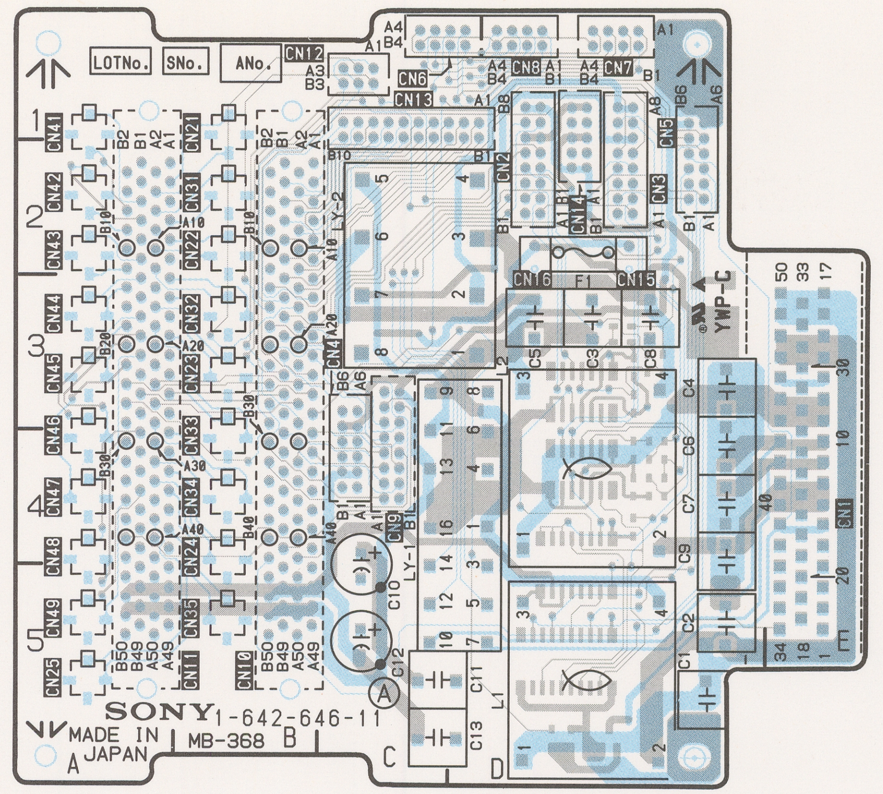
AU-166 BOARD


CN3 (1/3) 12P
MIC
S101 (MIC)
A1 GND
B1 CALL
A2 GND
B2 MIC ON
CN3 (2/3) 12P
C/P
S102 (COMMON/PRIVATE)
A3 GND
B3 C/P
A4 NC
B4 NC
CN3 (3/3) 12P
EN/PD
S103 (ENG/PD)
A5 GND
B5 PD/ENG
A6 GND
B6 MIX
CN4 10P
INCOM
CN105 (INCOM) / CN106 (PGM)
A1 MIC-1 (+) IN
B1 MIC-1 (–) IN
A2 MIC-1 SHEILD
B2 MIC-2 (+) IN
A3 MIC-2 (–) IN
B3 MIC-2 SHEILD
A4 INCOM R SHEILD
B4 INCOM RECEIVE
A5 INCOM PGM SHEILD
B5 PGM RECEIVE
IC4 NJM386BS
IC5 NJM386BS
TP1
TP2
TP3
E1
Q1 2SK425-T1X15
Q2 2SK425-T1X15
D1 MA143-TX
D2 MA143-TX
S1 INCOM
S2 PGM
S3 (1/2) PGM INCOM
S3 (2/2)
IC1 (1/2) CXA1297M
IC1 (2/2) CXA1297M
IC2 (1/2) µPC4062G2
IC3 (1/3) MC14053BF
IC3 (2/3) MC14053BF
IC3 (3/3) MC14053BF
INCOM-AGC
INCOM-TALK
PGM-AGC
PGM-TALK
RV1 10k
RV2 10k
RV3 10k
RV4 10k
12V
5.5V
-5.5V
MB
CN1 16P
A1 UNREG GND
B1 UNREG +12V IN
A2 +5.5V IN
B2 -5.5V IN
A3 MSD TALK OUT
B3 GND
A4 MSD RECEIVE IN
B4 MSD GND
A5 PGM IN
B5 PGM GND
A6 MSD CALL
B6 MSD MIC ON
A7 EN/PD
B7 MIX
A8 COMMON/PRIVATE
B8 MUTE
MB-368 CN9
INCOM-L
CN2 (1/2) 8P
A1 MSD-R-INCOM
B1 MSD-ADJ-INCOM
A2 INCOM SHEILD
B2 NC
RV-101 INCOM LEVEL
PGM-L
CN2 (2/2) 8P
A3 MSD-PGM/INCOM
B3 MSD-ADJ-PGM
A4 PGM SHEILD
B4 NC
RV-102 PGM LEVEL

AU-166 BOARD
HDCD-50 (W.W)
B-¥HDCD50-AU166/M

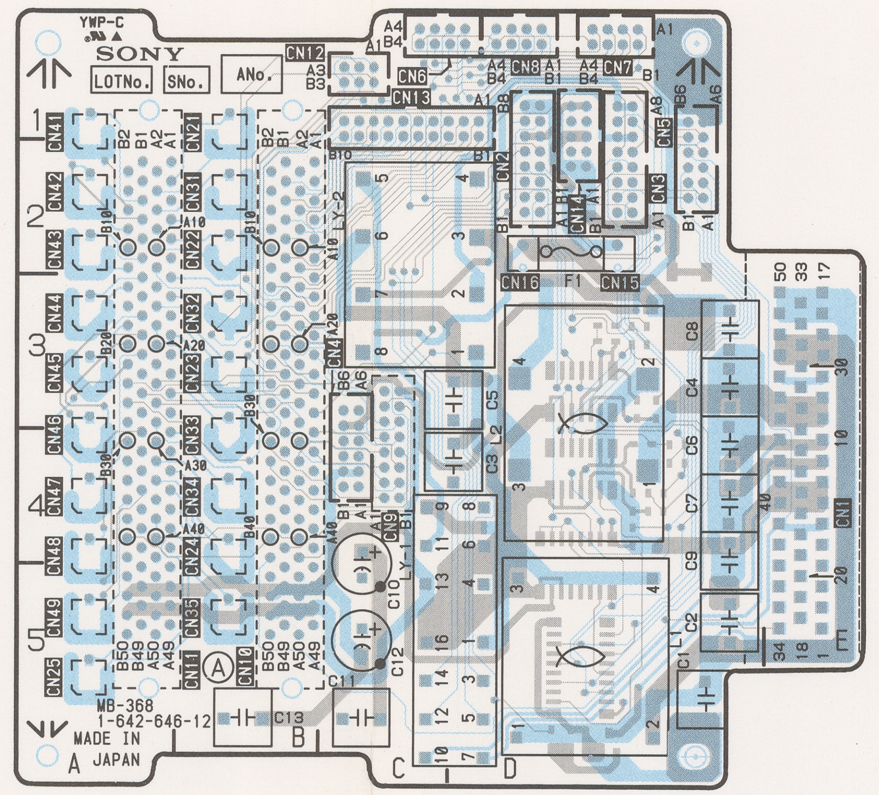
MB-368 BOARD

Serial No. 10001 – 10100

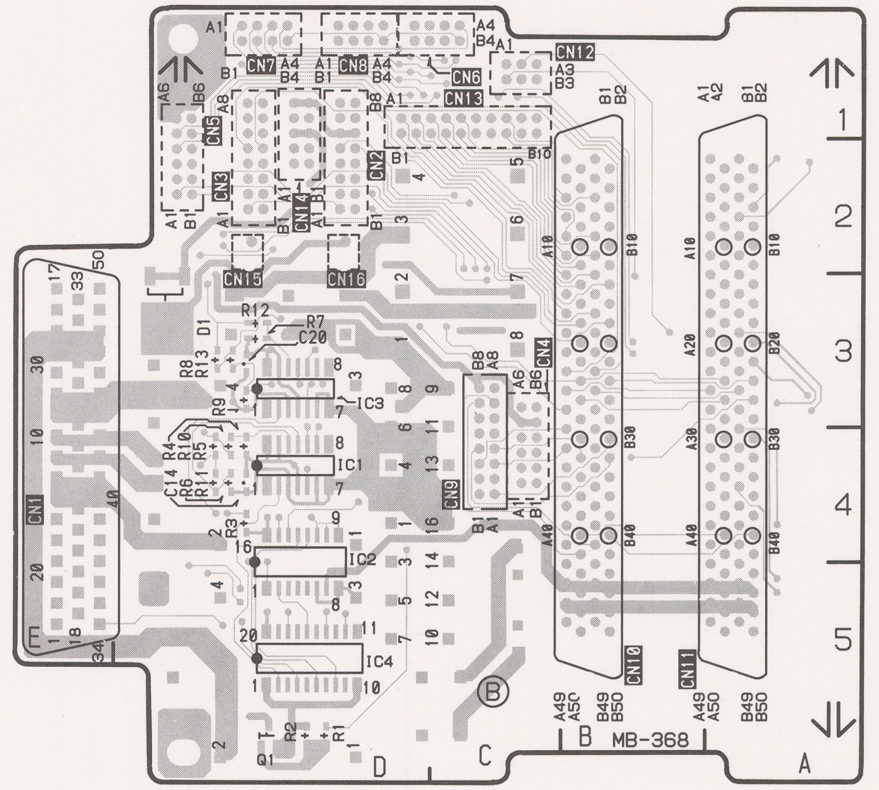

LOTNo.
SNo.
ANo.
SONY
1-642-646-11
MADE IN JAPAN
MB-368

1-642-646-11 COMPONENT SIDE

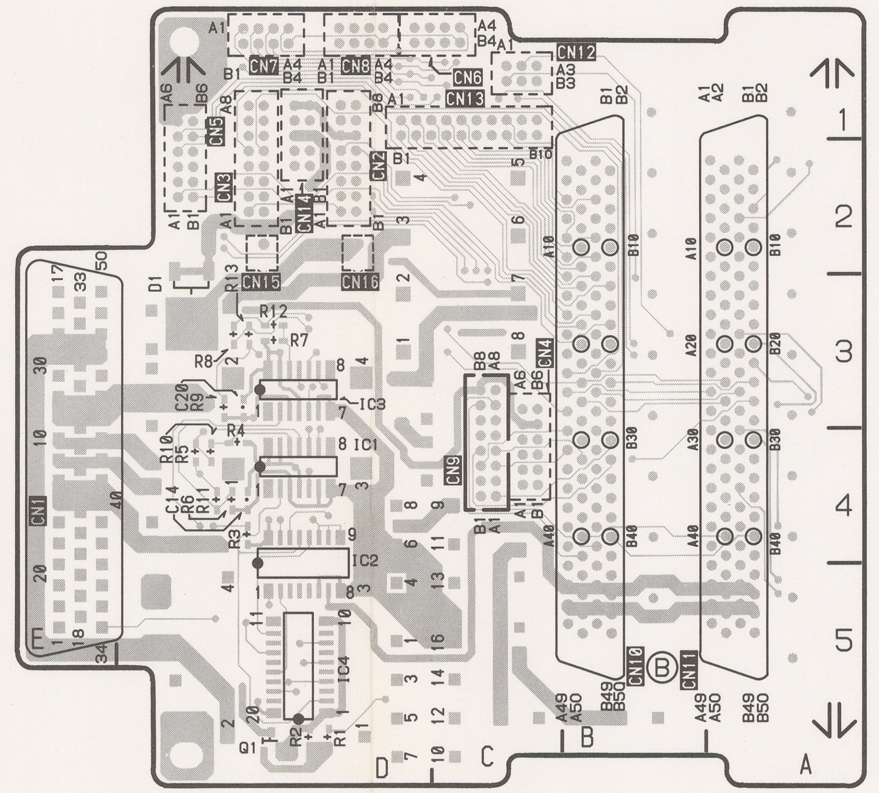
Serial No. 10101 –


YMP-C
SONY
LOTNo.
SNo.
ANo.
MB-368
1-647-646-12
MADE IN JAPAN

1-647-646-12 COMPONENT SIDE

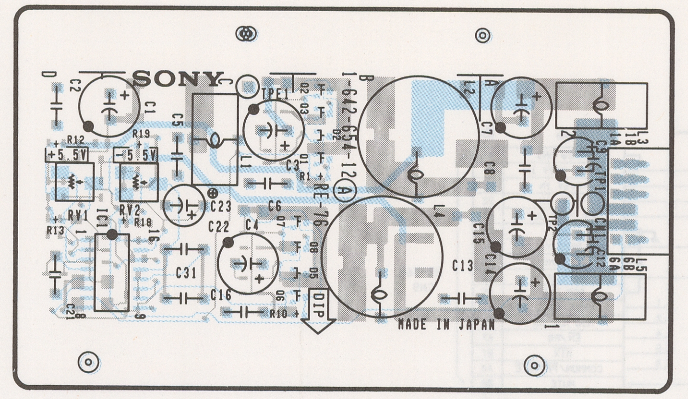


1-642-646-11 SOLDERING SIDE

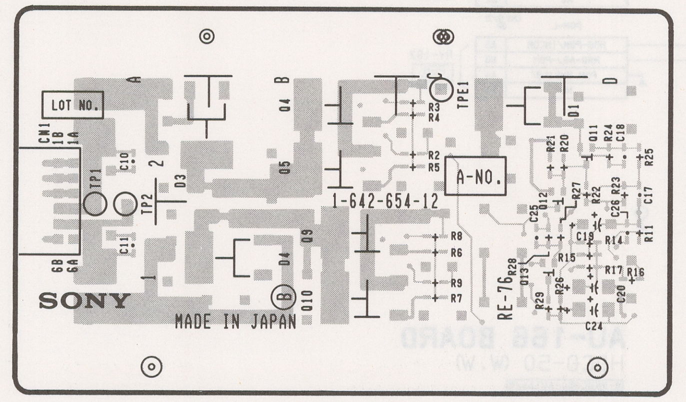


1-647-646-12 SOLDERING SIDE

RE-76 BOARD


SONY
MADE IN JAPAN

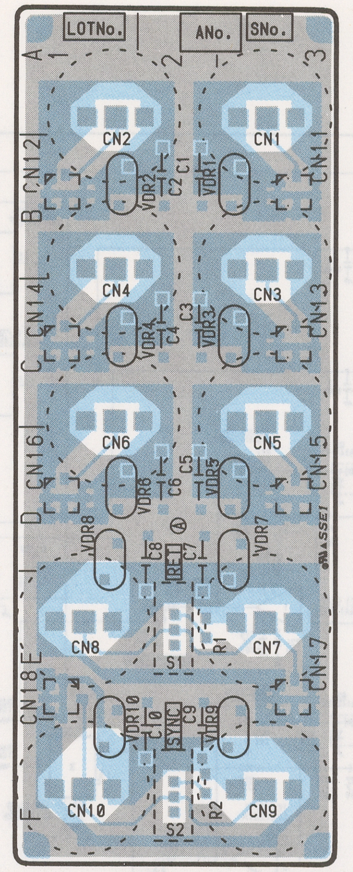
1-642-654-12 COMPONENT SIDE


LOT NO.
SONY
MADE IN JAPAN
1-642-654-12
A-NO.

1-642-654-12 SOLDERING SIDE

CN-599 BOARD

Serial No. 10001 – 10100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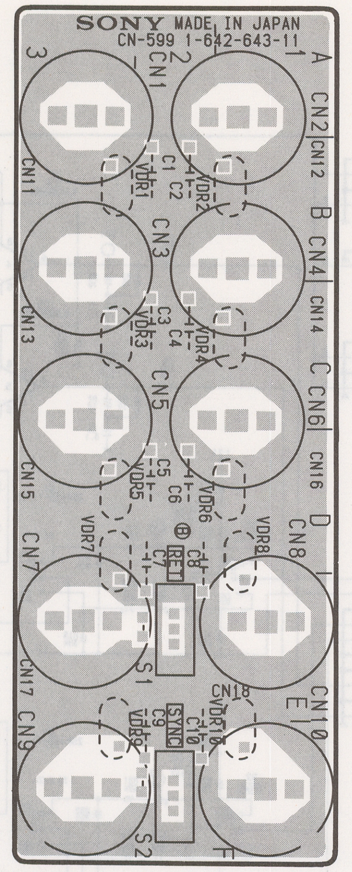
ANo.
SNo.

1-642-643-11 COMPONENT SIDE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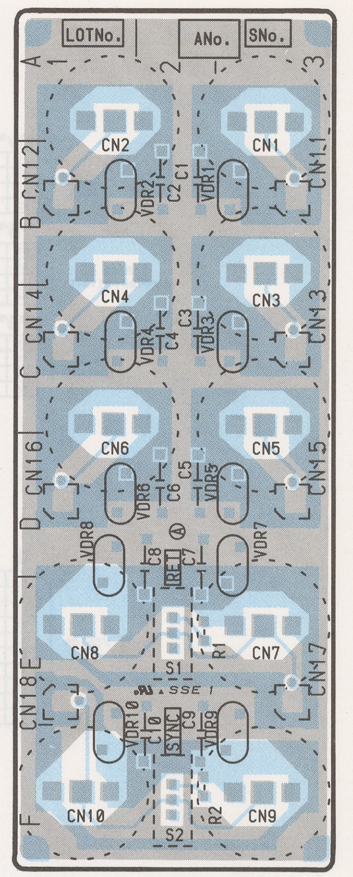
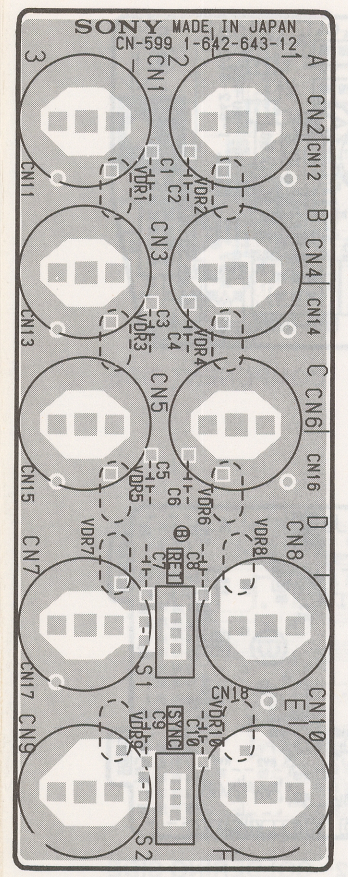
CN-599 1-642-643-11

1-642-643-11 SOLDERING SIDE

Serial No. 10101 –

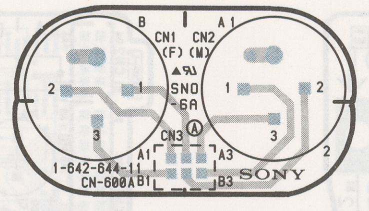

LOTNo.
ANo.
SNo.

1-642-643-12 COMPONENT SIDE


SONY MADE IN JAPAN
CN-599 1-642-643-12

1-642-643-12 SOLDERING SIDE

CN-600A BOARD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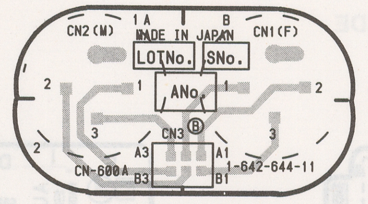
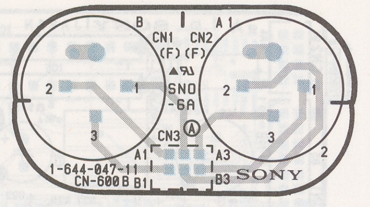
CN-600A
SONY

1-642-644-11 COMPONENT SIDE

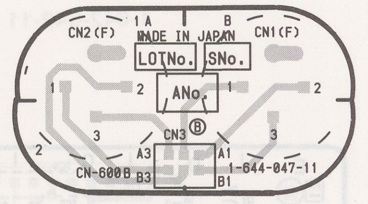

CN2 (M)
MADE IN JAPAN
CN1 (F)
LOTNo.
SNo.
ANo.
CN3
CN-600A
1-642-644-11

1-642-644-11 SOLDERING SIDE

CN-600B BOARD


1-644-047-11
CN-600B
SONY

1-642-047-11 COMPONENT SIDE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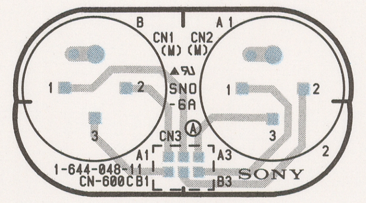
MADE IN JAPAN
CN1 (F)
LOTNo.
SNo.
ANo.
CN3
CN-600B
1-644-047-11

1-642-047-11 SOLDERING SIDE

CN-600C BOARD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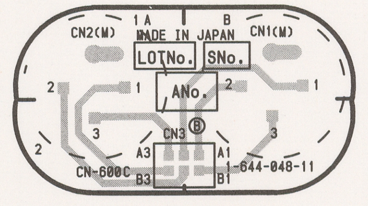
CN-600C
SONY

1-642-048-11 COMPONENT SIDE


CN2(M)
MADE IN JAPAN
CN1(M)
LOTNo.
SNo.
ANo.
CN3
CN-600C
1-644-048-11

1-642-048-11 SOLDERING SIDE

FRAME WIRING

MB-368 BOARD
RE-76 BOARD
CN-599 BOARD
CN-600A BOARD
CN-600B BOARD
CN-600C BOARD

RE-76
MB-368
AU-165
VDA-20
AU-166
CN-600A
CN-600B
CN-600C
SUPPLIED ACCESSORY
CN-599
EXT VIEW
TO POWER SUPPLY
SUPPLIED ACCESSORY
CC2 CONNECTOR (FEMALE)
-EXT VIEW-
INTERCOM/TALLY/PGM
-EXTERNAL VIEW-
MONITOR
OUTPUT
INPUT
RETURN VIDEO
BLK LOCK

FRAME
CN-599 BOARD
CN-600A/B/C BOARD
MB-368 BOARD
RE-76 BOARD

HDCD-50 (W.W)

A-¥HDCD50-FRAME/M

B-¥HDCD50-CN599/M
B-¥HDCD50-CN600A/M
B-¥HDCD50-CN600B/M
B-¥HDCD50-CN600C/M
B-¥HDCD50-MB368/M
B-¥HDCD50-RE76/M

SECTION D
SPARE PARTS

PARTS INFORMATION

1. **Safety Related Component Warning**

   Components identified by shading marked with ⚠ on the schematic diagrams, exploded views and electrical spare parts list are critical to safe operation. Replace these components with Sony parts whose parts numbers appear as shown in this manual or in service manual supplements published by Sony.

2. Replace parts that are supplied from Sony Parts Center can sometimes have different shape and external appearance than what are actually used in equipment. This is due to“accommodating the improved parts and/or engineering changes” or“standardization of genuine parts.”
   - This manual’s exploded view and electrical spare parts lists are indicating the parts numbers of “the standardized genuine parts at present.”
   - Regarding engineering parts and diagrams changes in our engineering department, refer to Sony service bulletins and service manual supplements.

3. The parts marked with“S” in the SP column of the exploded views and electrical spare parts list are normally required for routine service work. Orders for parts marked with “O” will be processed, but allow for additional delivery time.

4. Item with no parts number and/or no description are not stocked because they are seldom required for routine service.

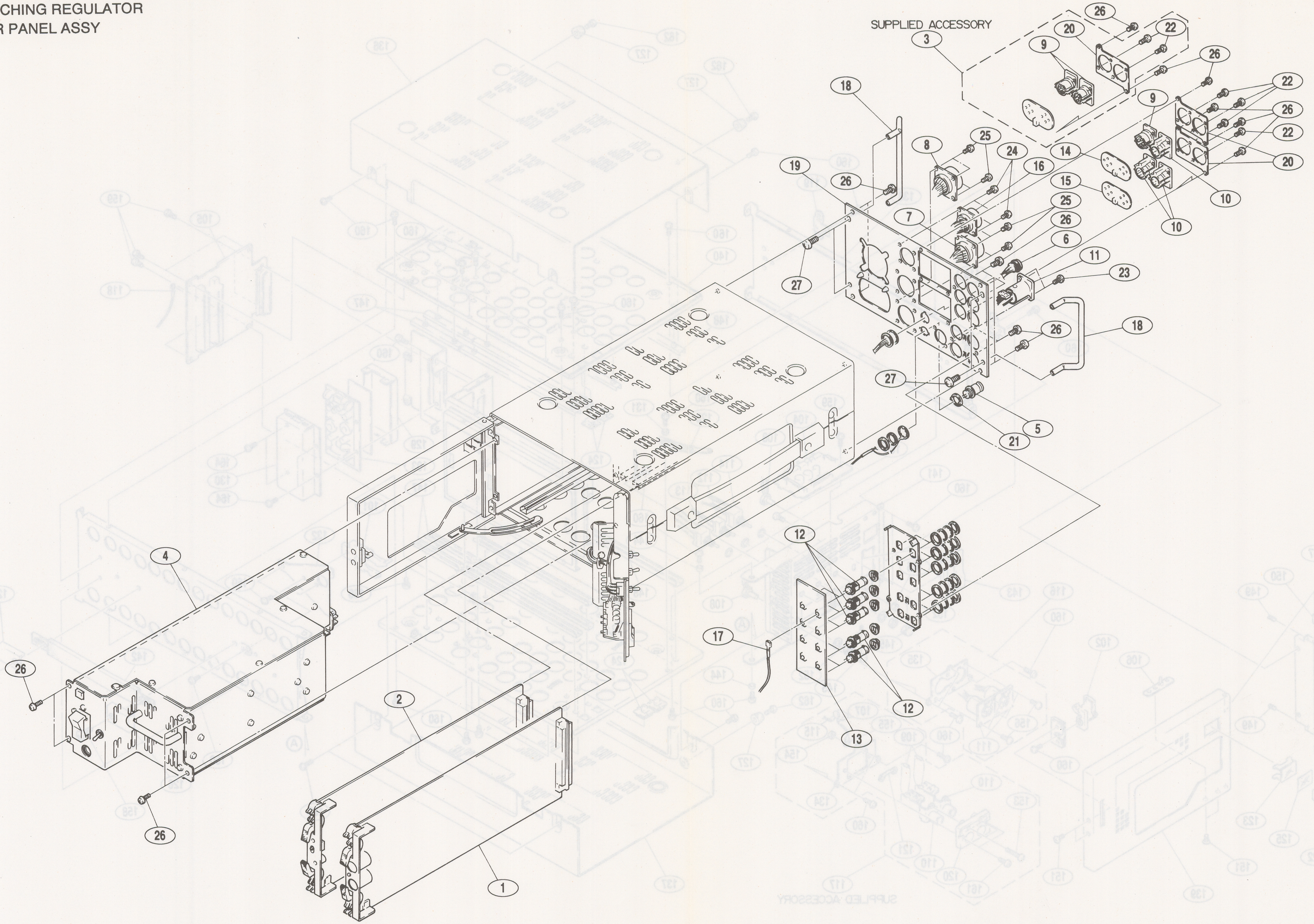
5. All capacitors are in micro farads unless otherwise specified.
   All inductors are in micro henries unless otherwise specified.
   All resistors are in ohms.

EXPLODED VIEW

SW REG AND REAR BLOCK

No.	Part No.	SP	Description
1	A-8271-421-A	o	MOUNTED CIRCUIT BOARD, VDA-20
2	A-8271-422-A	o	MOUNTED CIRCUIT BOARD, AU-165
3	A-8276-318-A	o	MOUNTED CIRCUIT BOARD, CN-600C (Supplied Accessory)
4	⚠1-413-739-11	o	SWITCHING REGULATOR
5	1-560-494-00	s	CONNECTOR, COAXIAL(BNC RF) "MONITOR"
6	1-562-221-51	s	RECEPTACLE, CONNECTOR 12P(FEMALE) "REMOTE"
7	1-562-244-00	o	RECEPTACLE, CONNECTOR 26P(MALE) "VTR"
8	1-562-245-00	o	RECEPTACLE, CONNECTOR 26P(FEMALE) "CAMERA"
9	1-565-281-11	o	CONNECTOR, XLR TYPE 3P(MALE) "LINE OUT" "MIC OUT 1, 2"
10	1-565-282-11	o	CONNECTOR, XLR TYPE 3P(FEMALE) "LINE IN" "MIC OUT 1, 2"
11	1-565-908-11	s	CONNECTOR, 4P(MALE) "DC IN 12V"
12	1-580-357-11	s	CONNECTOR, BNC "G/Y" "B/PB" "R/PR" "RETURN VIDEO" "GEN LOCK"
13	1-642-643-11	o	PRINTED CIRCUIT BOARD, CN-599
14	1-642-644-11	s	PRINTED CIRCUIT BOARD, CN-600A
15	1-644-047-11	s	PRINTED CIRCUIT BOARD, CN-600B
16	1-691-666-11	o	CONNECTOR, ROUND (RECEPTACLE)(MALE) "INCOM/TALLY/PGM"
17	1-950-216-11	s	HARNESS (VID-1)
18	2-118-821-01	o	HANDLE
19	3-176-293-01	o	PANEL, REAR
20	3-177-112-01	o	PLATE, CONNECTOR
21	3-692-444-01	o	SPACER, BNC INSULATING
22	7-627-556-57	s	PRECISION SCREW +P 2.6X5 TYPE1
23	7-627-556-77	s	PRECISION SCREW +P 2.6X6
24	7-627-556-78	s	PRECISION SCREW +P 2.6X6
25	7-682-546-04	s	SCREW +B 3X5
26	7-682-546-09	s	SCREW +B 3X5
27	7-682-561-04	s	SCREW +B 4X8

SW REG AND REAR BLOCK
SWITCHING REGULATOR
REAR PANEL ASSY


SUPPLIED ACCESSORY
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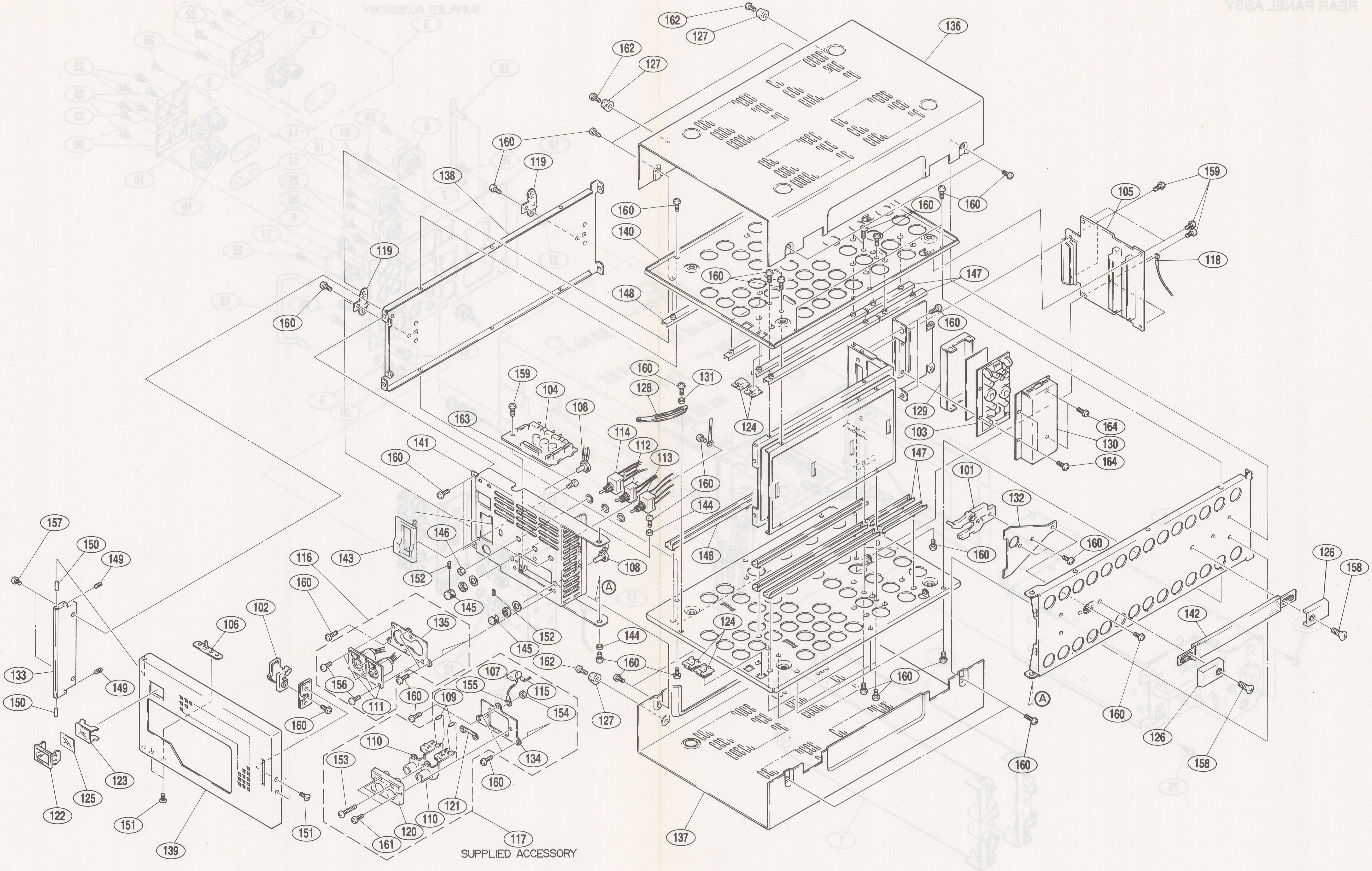
CABINET BLOCK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SUPPLIED ACCESSORY

CABINET BLOCK

No.	Part No.	SP	Description
101	A-7570-046-A	s	TABLE ASSY, LOCK
102	A-7570-048-A	s	HANDLE ASSY, SWITCHING
103	A-8271-267-A	o	MOUNTED CIRCUIT BOARD, RE-76
104	A-8271-419-A	o	MOUNTED CIRCUIT BOARD, AU-166
105	A-8271-420-A	o	MOUNTED CIRCUIT BOARD, MB-368
106	X-3166-510-1	s	BRACKET ASSY, STAY
107	1-136-205-11	s	CAP, METALIZED FILM 0.022MF
108	1-237-981-11	s	RES, VAR, CARBON 20K "LEVEL"
109	1-249-407-11	s	RES, CARBON (SMALL) 150
110	1-507-676-00	s	JACK "INCOM" "PGM"
111	1-509-186-31	s	CONNECTOR, 5P(FEMALE) "INCOM" "PGM"
112	1-571-070-11	s	SWITCH, TOGGLE "COMM/PRIV"
113	1-571-073-11	s	SWITCH, TOGGLE "ENG/PD"
114	1-692-153-11	s	SWITCH, TOGGLE "MIC"
105	1-806-500-11	s	VARISTOR ERZ-C05DK390
116	1-950-214-11	o	HARNESS (INCOM-2)
117	1-950-215-12	o	HARNESS (INCOM-1) (Supplied Accessory)
118	1-950-216-11	s	HARNESS (VID-1)
119	2-126-620-01	o	STOPPER, COVER
120	2-128-255-01	o	INSULATOR, PHONE
121	2-128-256-01	o	BRACKET, PHONE
122	2-139-192-01	o	FRAME, INDICATOR WINDOW
123	2-139-193-01	o	WINDOW, INDICATOR
124	2-146-576-01	o	GUIDE
125	2-249-353-00	o	COVER, LAMP
126	2-253-306-21	o	TABLE, HANDLE
127	3-143-272-00	s	FOOT, RUBBER
128	3-174-488-01	s	STAY
129	3-175-689-01	o	CASE (MAIN), SHIELD, RE
130	3-175-690-01	o	CASE (LID), SHIELD, RE
131	3-176-276-01	o	SPACER (DIA. 3.85)
132	3-176-277-01	o	PLATE, ADJUSTMENT, LOCK
133	3-176-278-01	o	HINGE, FRONT SUB
134	3-176-279-01	o	PLATE (A), INCOME
135	3-176-284-01	o	PLATE (B), INCOME
136	3-176-287-01	o	COVER
137	3-176-287-11	o	COVER
138	3-176-288-01	o	PLATE (L), SIDE
139	3-176-292-01	o	PANEL, FRONT
140	3-176-295-01	o	PLATE, TOP
141	3-176-296-01	o	PANEL, FRONT SUB
142	3-419-372-01	s	HANDLE
143	3-651-850-03	s	GUARD, P SWITCH
144	3-654-058-11	o	SPACER (3X2)
145	3-657-627-11	s	KNOB (2)
146	3-672-267-00	s	NUT, CONTROL
147	3-673-676-01	s	RAIL, GUIDE, CHASSIS
148	3-673-676-31	o	RAIL, PC BOARD GUIDE
149	3-701-505-00	s	SET SCREW, DOUBLE POINT 3X3
150	3-703-360-03	s	PIN, PARALLEL (DIA. 3X10)
151	7-621-559-20	s	SCREW +K 2.6X4
152	7-621-731-08	s	SET-SCT,HEX. 2X2.5,FLAT POINT
153	7-621-775-68	s	SCREW +P 2.6X12
154	7-622-207-05	s	N 2.6, TYPE 2
155	7-623-507-01	s	LUG, 2.6
156	7-627-556-57	s	PRECISION SCREW +P 2.6X5 TYPE1
157	7-682-247-09	s	SCREW +K 3X6
158	7-682-264-09	s	SCREW +RK 4X14
159	7-682-546-04	s	SCREW +B 3X5
160	7-682-546-09	s	SCREW +B 3X5
161	7-682-547-09	s	SCREW +B 3X6
162	7-682-548-09	s	SCREW +B 3X8
163	7-685-133-19	s	SCREW +P 2.6X6 TYPE2 NON-SLIT
164	7-621-770-67	s	SCREW +B 2.6X6

ELECTRICAL PARTS

AU-165 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8271-422-A	o	MOUNTED CIRCUIT BOARD, AU-165
4pcs	7-626-320-11	s	PIN, SPRING 3X8
2pcs	7-682-546-04	s	SCREW +B 3X5
C1	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C2	1-164-469-11	s	CERAMIC 510PF 5% 50V
C3	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C4	1-164-469-11	s	CERAMIC 510PF 5% 50V
C5	1-162-922-11	s	CERAMIC, CHIP 39PF 5% 50V
C6	1-164-490-11	s	CERAMIC 0.068uF 16V
C7	1-126-947-11	s	ELECT 47uF 20% 35V
C8	1-164-363-11	s	CERAMIC 560PF 5% 50V
C9	1-164-490-11	s	CERAMIC 0.068uF 16V
C10	1-126-947-11	s	ELECT 47uF 20% 35V
C11	1-162-922-11	s	CERAMIC, CHIP 39PF 5% 50V
C12	1-164-363-11	s	CERAMIC 560PF 5% 50V
C13	1-162-806-11	s	CERAMIC 0.1uF 10% 50V
C14	1-164-382-11	s	CERAMIC 91PF 5% 50V
C15	1-162-922-11	s	CERAMIC, CHIP 39PF 5% 50V
C16	1-162-806-11	s	CERAMIC 0.1uF 10% 50V
C17	1-162-922-11	s	CERAMIC, CHIP 39PF 5% 50V
C18	1-164-245-11	s	CERAMIC 0.015uF 10% 25V
C19	1-126-947-11	s	ELECT 47uF 20% 35V
C20	1-126-947-11	s	ELECT 47uF 20% 35V
C21	1-162-962-11	s	CERAMIC 470PF 10% 50V
C22	1-162-922-11	s	CERAMIC, CHIP 39PF 5% 50V
C23	1-164-227-11	s	CERAMIC 0.022uF 10% 25V
C24	1-126-947-11	s	ELECT 47uF 20% 35V
C25	1-126-947-11	s	ELECT 47uF 20% 35V
C26	1-164-386-11	s	CERAMIC 200PF 5% 50V
C39	1-164-155-11	s	CERAMIC 75PF 5% 50V
C40	1-126-947-11	s	ELECT 47uF 20% 35V
C41	1-126-947-11	s	ELECT 47uF 20% 35V
C42	1-126-947-11	s	ELECT 47uF 20% 35V
C43	1-126-947-11	s	ELECT 47uF 20% 35V
C44	1-164-155-11	s	CERAMIC 75PF 5% 50V
C45	1-164-386-11	s	CERAMIC 200PF 5% 50V
C46	1-164-360-11	s	CERAMIC 0.1uF 16V
C47	1-164-360-11	s	CERAMIC 0.1uF 16V
C48	1-164-360-11	s	CERAMIC 0.1uF 16V
C49	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C50	1-164-360-11	s	CERAMIC 0.1uF 16V
C51	1-164-360-11	s	CERAMIC 0.1uF 16V
C52	1-164-360-11	s	CERAMIC 0.1uF 16V
C53	1-164-360-11	s	CERAMIC 0.1uF 16V
C54	1-135-179-21	s	TANTAL 2.2uF 10% 16V
C55	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C56	1-127-520-11	s	ELECTSOLID 68uF 20% 20V
C57	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C58	1-127-520-11	s	ELECTSOLID 68uF 20% 20V
C59	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C60	1-135-156-21	s	TANTALUM, CHIP 6.8uF 10% 6.3V
C61	1-127-520-11	s	ELECTSOLID 68uF 20% 20V
C62	1-127-520-11	s	ELECTSOLID 68uF 20% 20V
C63	1-127-520-11	s	ELECTSOLID 68uF 20% 20V
C64	1-127-520-11	s	ELECTSOLID 68uF 20% 20V
C65	1-135-076-21	s	TANTALUM, CHIP 1uF 10% 35V
C66	1-135-076-21	s	TANTALUM, CHIP 1uF 10% 35V
C67	1-135-076-21	s	TANTALUM, CHIP 1uF 10% 35V

(AU-165 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C101	1-162-922-11	s	CERAMIC, CHIP 39PF 5% 50V
C102	1-164-336-11	s	CERAMIC 0.33uF 25V
C104	1-164-245-11	s	CERAMIC 0.015uF 10% 25V
C105	1-126-947-11	s	ELECT 47uF 20% 35V
C106	1-126-947-11	s	ELECT 47uF 20% 35V
C107	1-162-962-11	s	CERAMIC 470PF 10% 50V
C201	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C202	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C203	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C204	1-164-360-11	s	CERAMIC 0.1uF 16V
C205	1-164-360-11	s	CERAMIC 0.1uF 16V
C206	1-164-336-11	s	CERAMIC 0.33uF 25V
C207	1-164-336-11	s	CERAMIC 0.33uF 25V
C210	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C211	1-164-005-11	s	CERAMIC, CHIP 0.47uF 25V
C212	1-164-005-11	s	CERAMIC, CHIP 0.47uF 25V
CN1	1-580-195-21	s	CONNECTOR, PC BOARD 100P
D1	8-719-900-23	s	DIODE GL-2AR1
D2	8-719-800-76	s	DIODE 1SS226
D3	8-719-800-76	s	DIODE 1SS226
D4	8-719-800-76	s	DIODE 1SS226
D5	8-719-800-76	s	DIODE 1SS226
IC1	8-759-142-19	s	IC UPC4064G
IC2	8-759-142-19	s	IC UPC4064G
IC3	8-759-009-06	s	IC MC14052BF
IC4	8-759-700-45	s	IC NJM4556M-A
IC5	8-759-700-45	s	IC NJM4556M-A
IC6	8-759-142-19	s	IC UPC4064G
IC7	8-759-300-71	s	IC MC14053BF
IC8	8-759-700-45	s	IC NJM4556M-A
IC9	8-759-700-45	s	IC NJM4556M-A
IC10	8-759-142-19	s	IC UPC4064G
IC11	8-759-300-71	s	IC MC14053BF
IC13	8-759-142-19	s	IC UPC4064G
IC14	8-759-009-06	s	IC MC14052BF
IC15	8-759-009-06	s	IC MC14052BF
IC16	8-759-300-71	s	IC MC14053BF
IC17	8-759-700-45	s	IC NJM4556M-A
IC18	8-759-700-45	s	IC NJM4556M-A
IC19	8-759-142-19	s	IC UPC4064G
IC20	8-759-300-71	s	IC MC14053BF
IC21	8-759-009-04	s	IC MC14050BF
IC22	8-759-200-79	s	IC TC4049BF
IC23	8-759-973-71	s	IC TL7705CPS-B
IC24	8-759-990-63	s	IC PCF8574AT
IC25	8-759-990-63	s	IC PCF8574AT
IC26	8-759-008-93	s	IC MC14025BF
IC27	8-759-200-79	s	IC TC4049BF
IC28	8-759-990-63	s	IC PCF8574AT
IC30	8-759-142-19	s	IC UPC4064G
IC31	8-759-066-68	s	IC REF-03GS
IC32	8-759-057-06	s	IC PCF8591T
IC33	8-759-700-45	s	IC NJM4556M-A
IC34	8-759-142-19	s	IC UPC4064G
L1	1-410-387-11	s	INDUCTOR, CHIP 33uH
Q1	8-729-805-25	s	TRANSISTOR 2SB1121-S

Ref. No. or Q'ty	Part No.	SP	Description
Q2	8-729-117-32	s	TRANSISTOR 2SC4177
Q3	8-729-807-16	s	TRANSISTOR 2SD1621-R
Q4	8-729-117-16	s	TRANSISTOR 2SA1611-M6
Q5	8-729-805-25	s	TRANSISTOR 2SB1121-S
Q6	8-729-117-32	s	TRANSISTOR 2SC4177
Q7	8-729-117-32	s	TRANSISTOR 2SC4177
Q10	8-729-117-32	s	TRANSISTOR 2SC4177
Q11	8-729-117-32	s	TRANSISTOR 2SC4177
R1	1-218-723-11	s	METAL 20K 0.50% 1/16W
R2	1-218-733-11	s	METAL 51K 0.50% 1/16W
R3	1-218-733-11	s	METAL 51K 0.50% 1/16W
R4	1-218-716-11	s	METAL 10K 0.50% 1/16W
R5	1-218-716-11	s	METAL 10K 0.50% 1/16W
R6	1-218-716-11	s	METAL 10K 0.50% 1/16W
R7	1-218-716-11	s	METAL 10K 0.50% 1/16W
R8	1-218-716-11	s	METAL 10K 0.50% 1/16W
R9	1-218-716-11	s	METAL 10K 0.50% 1/16W
R10	1-218-716-11	s	METAL 10K 0.50% 1/16W
R11	1-218-716-11	s	METAL 10K 0.50% 1/16W
R12	1-218-716-11	s	METAL 10K 0.50% 1/16W
R13	1-218-716-11	s	METAL 10K 0.50% 1/16W
R14	1-218-716-11	s	METAL 10K 0.50% 1/16W
R15	1-218-716-11	s	METAL 10K 0.50% 1/16W
R17	1-218-733-11	s	METAL 51K 0.50% 1/16W
R18	1-218-733-11	s	METAL 51K 0.50% 1/16W
R20	1-218-748-11	s	METAL 220K 0.50% 1/16W
R21	1-218-740-11	s	METAL 100K 0.50% 1/16W
R22	1-218-706-11	s	METAL 3.9K 0.50% 1/16W
R23	1-216-836-11	s	METAL, CHIP 18K 5% 1/16W
R24	1-216-842-11	s	METAL, CHIP 56K 5% 1/16W
R25	1-218-707-11	s	METAL 4.3K 0.50% 1/16W
R26	1-218-707-11	s	METAL 4.3K 0.50% 1/16W
R27	1-216-842-11	s	METAL, CHIP 56K 5% 1/16W
R28	1-218-723-11	s	METAL 20K 0.50% 1/16W
R30	1-218-668-11	s	METAL 100 0.50% 1/16W
R31	1-218-724-11	s	METAL 22K 0.50% 1/16W
R33	1-218-675-11	s	METAL 200 0.50% 1/16W
R35	1-218-748-11	s	METAL 220K 0.50% 1/16W
R36	1-218-883-11	s	METAL 33K 0.50% 1/16W
R37	1-216-804-11	s	METAL 39K 0.50% 1/16W
R38	1-218-708-11	s	METAL 4.7K 0.50% 1/16W
R40	1-218-748-11	s	METAL 220K 0.50% 1/16W
R41	1-218-740-11	s	METAL 100K 0.50% 1/16W
R42	1-218-706-11	s	METAL 3.9K 0.50% 1/16W
R43	1-216-836-11	s	METAL, CHIP 18K 5% 1/16W
R44	1-216-842-11	s	METAL, CHIP 56K 5% 1/16W
R45	1-218-707-11	s	METAL 4.3K 0.50% 1/16W
R46	1-218-723-11	s	METAL 20K 0.50% 1/16W
R47	1-218-707-11	s	METAL 4.3K 0.50% 1/16W
R48	1-216-842-11	s	METAL, CHIP 56K 5% 1/16W
R49	1-218-723-11	s	METAL 20K 0.50% 1/16W
R50	1-218-668-11	s	METAL 100 0.50% 1/16W
R51	1-218-724-11	s	METAL 22K 0.50% 1/16W
R53	1-218-675-11	s	METAL 200 0.50% 1/16W
R55	1-218-748-11	s	METAL 220K 0.50% 1/16W
R56	1-218-883-11	s	METAL 33K 0.50% 1/16W
R57	1-216-804-11	s	METAL 39K 0.50% 1/16W
R58	1-218-708-11	s	METAL 4.7K 0.50% 1/16W

Ref. No. or Q'ty	Part No.	SP	Description
R59	1-218-740-11	s	METAL 100K 0.50% 1/16W
R60	1-218-724-11	s	METAL 22K 0.50% 1/16W
R61	1-218-740-11	s	METAL 100K 0.50% 1/16W
R62	1-218-748-11	s	METAL 220K 0.50% 1/16W
R63	1-218-748-11	s	METAL 220K 0.50% 1/16W
R64	1-218-740-11	s	METAL 100K 0.50% 1/16W
R65	1-218-724-11	s	METAL 22K 0.50% 1/16W
R67	1-218-716-11	s	METAL 10K 0.50% 1/16W
R68	1-218-724-11	s	METAL 22K 0.50% 1/16W
R69	1-218-740-11	s	METAL 100K 0.50% 1/16W
R70	1-218-724-11	s	METAL 22K 0.50% 1/16W
R73	1-218-720-11	s	METAL 15K 0.50% 1/16W
R74	1-218-740-11	s	METAL 100K 0.50% 1/16W
R75	1-216-842-11	s	METAL, CHIP 56K 5% 1/16W
R76	1-218-707-11	s	METAL 4.3K 0.50% 1/16W
R77	1-218-723-11	s	METAL 20K 0.50% 1/16W
R78	1-218-723-11	s	METAL 20K 0.50% 1/16W
R79	1-218-707-11	s	METAL 4.3K 0.50% 1/16W
R80	1-216-842-11	s	METAL, CHIP 56K 5% 1/16W
R82	1-218-668-11	s	METAL 100 0.50% 1/16W
R83	1-218-675-11	s	METAL 200 0.50% 1/16W
R84	1-218-740-11	s	METAL 100K 0.50% 1/16W
R86	1-218-716-11	s	METAL 10K 0.50% 1/16W
R87	1-218-883-11	s	METAL 33K 0.50% 1/16W
R89	1-218-720-11	s	METAL 15K 0.50% 1/16W
R90	1-218-740-11	s	METAL 100K 0.50% 1/16W
R91	1-216-842-11	s	METAL, CHIP 56K 5% 1/16W
R92	1-218-707-11	s	METAL 4.3K 0.50% 1/16W
R93	1-218-723-11	s	METAL 20K 0.50% 1/16W
R94	1-218-707-11	s	METAL 4.3K 0.50% 1/16W
R95	1-216-842-11	s	METAL, CHIP 56K 5% 1/16W
R96	1-218-723-11	s	METAL 20K 0.50% 1/16W
R97	1-218-668-11	s	METAL 100 0.50% 1/16W
R100	1-218-675-11	s	METAL 200 0.50% 1/16W
R101	1-218-740-11	s	METAL 100K 0.50% 1/16W
R103	1-218-716-11	s	METAL 10K 0.50% 1/16W
R104	1-218-883-11	s	METAL 33K 0.50% 1/16W
R121	1-218-716-11	s	METAL 10K 0.50% 1/16W
R122	1-218-716-11	s	METAL 10K 0.50% 1/16W
R123	1-218-716-11	s	METAL 10K 0.50% 1/16W
R124	1-218-716-11	s	METAL 10K 0.50% 1/16W
R125	1-218-716-11	s	METAL 10K 0.50% 1/16W
R126	1-218-716-11	s	METAL 10K 0.50% 1/16W
R127	1-218-716-11	s	METAL 10K 0.50% 1/16W
R128	1-218-716-11	s	METAL 10K 0.50% 1/16W
R129	1-218-716-11	s	METAL 10K 0.50% 1/16W
R130	1-218-716-11	s	METAL 10K 0.50% 1/16W
R131	1-218-716-11	s	METAL 10K 0.50% 1/16W
R132	1-218-716-11	s	METAL 10K 0.50% 1/16W
R133	1-218-716-11	s	METAL 10K 0.50% 1/16W
R134	1-218-716-11	s	METAL 10K 0.50% 1/16W
R137	1-218-716-11	s	METAL 10K 0.50% 1/16W
R138	1-218-740-11	s	METAL 100K 0.50% 1/16W
R139	1-218-716-11	s	METAL 10K 0.50% 1/16W
R140	1-218-716-11	s	METAL 10K 0.50% 1/16W
R141	1-218-740-11	s	METAL 100K 0.50% 1/16W
R142	1-216-801-11	s	METAL 22 0.50% 1/16W
R143	1-216-801-11	s	METAL 22 0.50% 1/16W
R144	1-218-740-11	s	METAL 100K 0.50% 1/16W

(AU-165 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R145	1-218-740-11	s	METAL 100K 0.50% 1/16W
R146	1-216-801-11	s	METAL 22 0.50% 1/16W
R147	1-216-801-11	s	METAL 22 0.50% 1/16W
R148	1-218-740-11	s	METAL 100K 0.50% 1/16W
R149	1-218-716-11	s	METAL 10K 0.50% 1/16W
R150	1-218-716-11	s	METAL 10K 0.50% 1/16W
R151	1-218-740-11	s	METAL 100K 0.50% 1/16W
R152	1-218-716-11	s	METAL 10K 0.50% 1/16W
R153	1-218-716-11	s	METAL 10K 0.50% 1/16W
R154	1-218-716-11	s	METAL 10K 0.50% 1/16W
R155	1-218-716-11	s	METAL 10K 0.50% 1/16W
R156	1-218-716-11	s	METAL 10K 0.50% 1/16W
R157	1-218-716-11	s	METAL 10K 0.50% 1/16W
R158	1-218-724-11	s	METAL 22K 0.50% 1/16W
R160	1-218-716-11	s	METAL 10K 0.50% 1/16W
R161	1-218-716-11	s	METAL 10K 0.50% 1/16W
R162	1-218-716-11	s	METAL 10K 0.50% 1/16W
R163	1-218-716-11	s	METAL 10K 0.50% 1/16W
R164	1-218-716-11	s	METAL 10K 0.50% 1/16W
R166	1-218-716-11	s	METAL 10K 0.50% 1/16W
R167	1-218-883-11	s	METAL 33K 0.50% 1/16W
R168	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R170	1-218-724-11	s	METAL 22K 0.50% 1/16W
R171	1-218-716-11	s	METAL 10K 0.50% 1/16W
R172	1-218-716-11	s	METAL 10K 0.50% 1/16W
R173	1-218-716-11	s	METAL 10K 0.50% 1/16W
R174	1-218-716-11	s	METAL 10K 0.50% 1/16W
R175	1-218-716-11	s	METAL 10K 0.50% 1/16W
R176	1-218-883-11	s	METAL 33K 0.50% 1/16W
R177	1-218-883-11	s	METAL 33K 0.50% 1/16W
R178	1-218-883-11	s	METAL 33K 0.50% 1/16W
R179	1-218-883-11	s	METAL 33K 0.50% 1/16W
R180	1-218-883-11	s	METAL 33K 0.50% 1/16W
R181	1-218-883-11	s	METAL 33K 0.50% 1/16W
R182	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R183	1-218-883-11	s	METAL 33K 0.50% 1/16W
R184	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R185	1-218-883-11	s	METAL 33K 0.50% 1/16W
R187	1-218-883-11	s	METAL 33K 0.50% 1/16W
R191	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R192	1-218-716-11	s	METAL 10K 0.50% 1/16W
R193	1-218-716-11	s	METAL 10K 0.50% 1/16W
R194	1-218-748-11	s	METAL 220K 0.50% 1/16W
R195	1-218-716-11	s	METAL 10K 0.50% 1/16W
R197	1-218-716-11	s	METAL 10K 0.50% 1/16W
R198	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R199	1-218-748-11	s	METAL 220K 0.50% 1/16W
R200	1-218-716-11	s	METAL 10K 0.50% 1/16W
R201	1-218-716-11	s	METAL 10K 0.50% 1/16W
R203	1-218-716-11	s	METAL 10K 0.50% 1/16W
R204	1-218-676-11	s	METAL 220 0.50% 1/16W
R205	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R206	1-218-716-11	s	METAL 10K 0.50% 1/16W
R207	1-218-716-11	s	METAL 10K 0.50% 1/16W
R208	1-218-716-11	s	METAL 10K 0.50% 1/16W
R209	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R210	1-218-716-11	s	METAL 10K 0.50% 1/16W
R211	1-218-676-11	s	METAL 220 0.50% 1/16W
R212	1-218-676-11	s	METAL 220 0.50% 1/16W

(AU-165 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R213	1-218-700-11	s	METAL 2.2K 0.50% 1/16W
R214	1-218-725-11	s	METAL 24K 0.50% 1/16W
R215	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R216	1-218-716-11	s	METAL 10K 0.50% 1/16W
R217	1-218-883-11	s	METAL 33K 0.50% 1/16W
R220	1-218-883-11	s	METAL 33K 0.50% 1/16W
R223	1-216-801-11	s	METAL 22 0.50% 1/16W
R224	1-218-716-11	s	METAL 10K 0.50% 1/16W
R225	1-218-883-11	s	METAL 33K 0.50% 1/16W
R226	1-218-883-11	s	METAL 33K 0.50% 1/16W
R227	1-218-883-11	s	METAL 33K 0.50% 1/16W
R228	1-218-883-11	s	METAL 33K 0.50% 1/16W
R229	1-218-883-11	s	METAL 33K 0.50% 1/16W
R230	1-218-883-11	s	METAL 33K 0.50% 1/16W
R231	1-218-883-11	s	METAL 33K 0.50% 1/16W
R232	1-218-883-11	s	METAL 33K 0.50% 1/16W
R233	1-218-883-11	s	METAL 33K 0.50% 1/16W
R234	1-218-883-11	s	METAL 33K 0.50% 1/16W
R235	1-218-295-11	s	METAL 5.6K 0.50% 1/16W
R236	1-218-883-11	s	METAL 33K 0.50% 1/16W
R237	1-218-680-11	s	METAL 330 0.50% 1/16W
R238	1-218-714-11	s	METAL 8.2K 0.50% 1/16W
R239	1-218-883-11	s	METAL 33K 0.50% 1/16W
R240	1-218-720-11	s	METAL 15K 0.50% 1/16W
R241	1-218-740-11	s	METAL 100K 0.50% 1/16W
R242	1-216-842-11	s	METAL, CHIP 56K 5% 1/16W
R243	1-218-707-11	s	METAL 4.3K 0.50% 1/16W
R244	1-218-723-11	s	METAL 20K 0.50% 1/16W
R245	1-218-707-11	s	METAL 4.3K 0.50% 1/16W
R246	1-216-842-11	s	METAL, CHIP 56K 5% 1/16W
R247	1-218-723-11	s	METAL 20K 0.50% 1/16W
R248	1-218-668-11	s	METAL 100 0.50% 1/16W
R249	1-218-675-11	s	METAL 200 0.50% 1/16W
R250	1-218-740-11	s	METAL 100K 0.50% 1/16W
R251	1-218-716-11	s	METAL 10K 0.50% 1/16W
R252	1-218-883-11	s	METAL 33K 0.50% 1/16W
R253	1-218-883-11	s	METAL 33K 0.50% 1/16W
R254	1-218-716-11	s	METAL 10K 0.50% 1/16W
R255	1-218-716-11	s	METAL 10K 0.50% 1/16W
R256	1-218-716-11	s	METAL 10K 0.50% 1/16W
R257	1-218-716-11	s	METAL 10K 0.50% 1/16W
R258	1-218-716-11	s	METAL 10K 0.50% 1/16W
R259	1-218-716-11	s	METAL 10K 0.50% 1/16W
R260	1-218-716-11	s	METAL 10K 0.50% 1/16W
R261	1-218-716-11	s	METAL 10K 0.50% 1/16W
R262	1-218-716-11	s	METAL 10K 0.50% 1/16W
R263	1-218-716-11	s	METAL 10K 0.50% 1/16W
R264	1-218-716-11	s	METAL 10K 0.50% 1/16W
R265	1-218-716-11	s	METAL 10K 0.50% 1/16W
R266	1-218-675-11	s	METAL 200 0.50% 1/16W
R267	1-218-675-11	s	METAL 200 0.50% 1/16W
R268	1-218-675-11	s	METAL 200 0.50% 1/16W
RV1	1-237-038-11	s	RES, ADJ, METAL 50K
RV2	1-237-038-11	s	RES, ADJ, METAL 50K
RV3	1-237-038-11	s	RES, ADJ, METAL 50K
RV4	1-237-036-11	s	RES, ADJ, METAL 10K
RV5	1-237-036-11	s	RES, ADJ, METAL 10K
RV6	1-237-038-11	s	RES, ADJ, METAL 50K

(AU-165 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
RV7	1-237-036-11	s	RES, ADJ, METAL 10K
RV8	1-237-036-11	s	RES, ADJ, METAL 10K
RV9	1-237-038-11	s	RES, ADJ, METAL 50K
RV10	1-237-036-11	s	RES, ADJ, METAL 10K
RV11	1-237-038-11	s	RES, ADJ, METAL 50K
RV12	1-237-038-11	s	RES, ADJ, METAL 50K
RV13	1-237-036-11	s	RES, ADJ, METAL 10K
RV14	1-237-038-11	s	RES, ADJ, METAL 50K
RV16	1-237-036-11	s	RES, ADJ, METAL 10K
RV17	1-237-036-11	s	RES, ADJ, METAL 10K
RV18	1-237-036-11	s	RES, ADJ, METAL 10K
RV19	1-237-036-11	s	RES, ADJ, METAL 10K
RV20	1-237-036-11	s	RES, ADJ, METAL 10K
RV22	1-237-036-11	s	RES, ADJ, METAL 10K
RV23	1-237-036-11	s	RES, ADJ, METAL 10K
RV25	1-230-752-21	s	RES, ADJ, METAL 50K
RV26	1-237-038-11	s	RES, ADJ, METAL 50K
RV27	1-237-036-11	s	RES, ADJ, METAL 10K
RV28	1-237-038-11	s	RES, ADJ, METAL 50K
S1	1-570-838-11	s	SWITCH, SLIDE
S2	1-570-838-11	s	SWITCH, SLIDE
S3	1-570-838-11	s	SWITCH, SLIDE
S4	1-570-838-11	s	SWITCH, SLIDE
S5	1-570-838-11	s	SWITCH, SLIDE
S10	1-570-838-11	s	SWITCH, SLIDE
S11	1-554-399-00	s	SWITCH, TOGGLE
S12	1-570-838-11	s	SWITCH, SLIDE
T1	1-426-038-00	s	TRANSFORMER
T2	1-426-038-00	s	TRANSFORMER

AU-166 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8271-419-A	o	MOUNTED CIRCUIT BOARD, AU-166
C1	1-124-144-00	s	ELECT 220uF 20% 16V
C2	1-164-156-11	s	CERAMIC 0.1uF 25V0%
C3	1-124-455-00	s	ELECT 100uF 20% 16V
C4	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C5	1-124-144-00	s	ELECT 220uF 20% 16V
C6	1-164-156-11	s	CERAMIC 0.1uF 25V0%
C7	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C8	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C9	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C10	1-135-164-21	s	TANTALUM, CHIP 22uF 20% 10V
C11	1-135-073-00	s	TANTALUM, CHIP 0.33uF 10% 35V
C12	1-135-212-21	s	TANTAL 2.2uF 10% 35V
C13	1-135-212-21	s	TANTAL 2.2uF 10% 35V
C14	1-164-156-11	s	CERAMIC 0.1uF 25V0%
C15	1-135-085-21	s	TANTALUM, CHIP 4.7uF 10% 25V
C16	1-135-085-21	s	TANTALUM, CHIP 4.7uF 10% 25V
C17	1-164-156-11	s	CERAMIC 0.1uF 25V0%
C18	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C19	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C20	1-135-179-21	s	TANTAL 2.2uF 10% 16V
C21	1-135-179-21	s	TANTAL 2.2uF 10% 16V
C22	1-135-164-21	s	TANTALUM, CHIP 22uF 20% 10V
C23	1-135-073-00	s	TANTALUM, CHIP 0.33uF 10% 35V
C24	1-135-212-21	s	TANTAL 2.2uF 10% 35V
C25	1-135-212-21	s	TANTAL 2.2uF 10% 35V
C26	1-164-156-11	s	CERAMIC 0.1uF 25V0%
C27	1-135-085-21	s	TANTALUM, CHIP 4.7uF 10% 25V
C28	1-135-085-21	s	TANTALUM, CHIP 4.7uF 10% 25V
C29	1-164-156-11	s	CERAMIC 0.1uF 25V0%
C30	1-135-179-21	s	TANTAL 2.2uF 10% 16V
C31	1-135-179-21	s	TANTAL 2.2uF 10% 16V
C32	1-164-470-11	s	CERAMIC 620PF 5% 50V
CN1	1-580-537-11	o	CONNECTOR PC BOARD 16P
CN2	1-580-533-11	s	CONNECTOR PC BOARD 8P
CN3	1-580-535-11	o	CONNECTOR PC BOARD 12P
CN4	1-580-534-11	o	CONNECTOR PC BOARD 10P
D1	8-719-800-76	s	DIODE 1SS226
D2	8-719-800-76	s	DIODE 1SS226
IC1	8-759-605-63	s	IC CXA1297M
IC2	8-759-142-20	s	IC UPC4062G2
IC3	8-759-300-71	s	IC MC14053BF
IC4	8-759-702-01	s	IC NJM386BS
IC5	8-759-702-01	s	IC NJM386BS
Q1	8-729-110-94	s	TRANSISTOR 2SK425-X15
Q2	8-729-110-94	s	TRANSISTOR 2SK425-X15
R1	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R2	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R3	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R4	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R5	1-218-732-11	s	METAL 47K 0.50% 1/16W
R6	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R7	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R8	1-218-732-11	s	METAL 47K 0.50% 1/16W
R9	1-218-883-11	s	METAL 33K 0.50% 1/16W
R10	1-218-883-11	s	METAL 33K 0.50% 1/16W

(AU-166 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R11	1-218-883-11	s	METAL 33K 0.50% 1/16W
R12	1-218-668-11	s	METAL 100 0.50% 1/16W
R13	1-218-484-11	s	METAL 750 0.50% 1/16W
R14	1-216-817-11	s	METAL, CHIP 470 5% 1/16W
R15	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R16	1-216-804-11	s	METAL 39K 0.50% 1/16W
R17	1-216-816-11	s	METAL, CHIP 390 5% 1/16W
R18	1-216-804-11	s	METAL 39K 0.50% 1/16W
R19	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R20	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R21	1-218-704-11	s	METAL 3.3K 0.50% 1/16W
R22	1-218-716-11	s	METAL 10K 0.50% 1/16W
R23	1-218-668-11	s	METAL 100 0.50% 1/16W
R24	1-218-668-11	s	METAL 100 0.50% 1/16W
R25	1-218-750-11	s	METAL 270K 0.50% 1/16W
R26	1-218-883-11	s	METAL 33K 0.50% 1/16W
R27	1-218-668-11	s	METAL 100 0.50% 1/16W
R28	1-218-484-11	s	METAL 750 0.50% 1/16W
R29	1-216-817-11	s	METAL, CHIP 470 5% 1/16W
R30	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R31	1-216-804-11	s	METAL 39K 0.50% 1/16W
R32	1-216-816-11	s	METAL, CHIP 390 5% 1/16W
R33	1-216-804-11	s	METAL 39K 0.50% 1/16W
R34	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R35	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R36	1-218-704-11	s	METAL 3.3K 0.50% 1/16W
R37	1-218-716-11	s	METAL 10K 0.50% 1/16W
R38	1-218-750-11	s	METAL 270K 0.50% 1/16W
R39	1-218-716-11	s	METAL 10K 0.50% 1/16W
R40	1-218-716-11	s	METAL 10K 0.50% 1/16W
R41	1-218-724-11	s	METAL 22K 0.50% 1/16W
R42	1-218-668-11	s	METAL 100 0.50% 1/16W
RV1	1-228-474-00	s	RES, ADJ, METAL 10K
RV2	1-228-474-00	s	RES, ADJ, METAL 10K
RV3	1-228-474-00	s	RES, ADJ, METAL 10K
RV4	1-228-474-00	s	RES, ADJ, METAL 10K
S1	1-571-098-11	s	SWITCH, SLIDE
S2	1-571-098-11	s	SWITCH, SLIDE
S3	1-571-098-11	s	SWITCH, SLIDE

CN-599 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-642-643-12	o	PRINTED CIRCUIT BOARD, CN-599
C1	1-136-187-11	s	FILM 0.047uF 5% 250V
C2	1-136-187-11	s	FILM 0.047uF 5% 250V
C3	1-136-187-11	s	FILM 0.047uF 5% 250V
C4	1-136-187-11	s	FILM 0.047uF 5% 250V
C5	1-136-187-11	s	FILM 0.047uF 5% 250V
C6	1-136-187-11	s	FILM 0.047uF 5% 250V
C7	1-136-187-11	s	FILM 0.047uF 5% 250V
C8	1-136-187-11	s	FILM 0.047uF 5% 250V
C9	1-136-187-11	s	FILM 0.047uF 5% 250V
C10	1-136-187-11	s	FILM 0.047uF 5% 250V
CN1	1-580-357-11	s	CONNECTOR, BNC
CN2	1-580-357-11	s	CONNECTOR, BNC
CN3	1-580-357-11	s	CONNECTOR, BNC
CN4	1-580-357-11	s	CONNECTOR, BNC
CN5	1-580-357-11	s	CONNECTOR, BNC
CN6	1-580-357-11	s	CONNECTOR, BNC
CN7	1-580-357-11	s	CONNECTOR, BNC
CN8	1-580-357-11	s	CONNECTOR, BNC
CN9	1-580-357-11	s	CONNECTOR, BNC
CN10	1-580-357-11	s	CONNECTOR, BNC
CN11	1-691-843-11	s	CONNECTOR, COAXIAL
CN12	1-691-843-11	s	CONNECTOR, COAXIAL
CN13	1-691-843-11	s	CONNECTOR, COAXIAL
CN14	1-691-843-11	s	CONNECTOR, COAXIAL
CN15	1-691-843-11	s	CONNECTOR, COAXIAL
CN16	1-691-843-11	s	CONNECTOR, COAXIAL
CN17	1-691-843-11	s	CONNECTOR, COAXIAL
CN18	1-691-843-11	s	CONNECTOR, COAXIAL
R1	1-214-531-00	s	METAL 82 1% 1/8W
R2	1-214-531-00	s	METAL 82 1% 1/8W
S1	1-571-624-21	s	SWITCH, SLIDE
S2	1-571-624-21	s	SWITCH, SLIDE
VDR1	1-806-500-11	s	ERZ-C05DK390
VDR2	1-806-500-11	s	ERZ-C05DK390
VDR3	1-806-500-11	s	ERZ-C05DK390
VDR4	1-806-500-11	s	ERZ-C05DK390
VDR5	1-806-500-11	s	ERZ-C05DK390
VDR6	1-806-500-11	s	ERZ-C05DK390
VDR7	1-806-500-11	s	ERZ-C05DK390
VDR8	1-806-500-11	s	ERZ-C05DK390
VDR9	1-806-500-11	s	ERZ-C05DK390
VDR10	1-806-500-11	s	ERZ-C05DK390

CN-600A BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-642-644-11	o	PRINTED CIRCUIT BOARD, CN-600A
1pc	3-177-112-01	o	PLATE, CONNECTOR
4pcs	7-627-556-57	s	PRECISION SCREW +P 2.6X5 TYPE1
CN1	1-565-282-11	o	CONNECTOR, XLR 3P, FEMALE
CN2	1-565-281-11	o	CONNECTOR, XLR 3P, MALE
CN3	1-580-558-11	o	CONNECTOR PC BOARD 6P

CN-600B BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-644-047-11	o	PRINTED CIRCUIT BOARD, CN-600B
1pc	3-177-112-01	o	PLATE, CONNECTOR
4pcs	7-627-556-57	s	PRECISION SCREW +P 2.6X5 TYPE1
CN1	1-565-282-11	o	CONNECTOR, XLR 3P, FEMALE
CN2	1-565-282-11	o	CONNECTOR, XLR 3P, FEMALE
CN3	1-580-558-11	o	CONNECTOR PC BOARD 6P

CN-600C BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8276-318-A	o	MOUNTED CIRCUIT BOARD, CN-600C
1pc	3-177-112-01	o	PLATE, CONNECTOR
4pcs	7-627-556-57	s	PRECISION SCREW +P 2.6X5 TYPE1
CN1	1-565-281-11	o	CONNECTOR, XLR 3P, MALE
CN2	1-565-281-11	o	CONNECTOR, XLR 3P, MALE
CN3	1-580-558-11	o	CONNECTOR PC BOARD 6P

EX-334 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8271-423-A	o	MOUNTED CIRCUIT BOARD, EX-334
2pcs	7-628-254-30	s	SCREW +PS 2.6X10
6pcs	7-685-870-01	s	SCREW +BVTT 3X5 (S)
CN1	1-580-195-31	s	CONNECTOR, PC BOARD 100P
CN2	1-573-600-21	s	CONNECTOR, PC BOARD 100P

MB-368 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8271-420-A	o	MOUNTED CIRCUIT BOARD, MB-368
C1	1-136-177-00	s	FILM 1uF 5% 50V
C2	1-136-177-00	s	FILM 1uF 5% 50V
C3	1-136-177-00	s	FILM 1uF 5% 50V
C4	1-136-177-00	s	FILM 1uF 5% 50V
C5	1-136-177-00	s	FILM 1uF 5% 50V
C6	1-136-177-00	s	FILM 1uF 5% 50V
C7	1-136-177-00	s	FILM 1uF 5% 50V
C8	1-136-177-00	s	FILM 1uF 5% 50V
C9	1-136-177-00	s	FILM 1uF 5% 50V
C10	1-127-518-11	s	ELECT (SOLID) 100uF 20% 16V
C11	1-136-177-00	s	FILM 1uF 5% 50V
C12	1-127-518-11	s	ELECT (SOLID) 100uF 20% 16V
C13	1-136-177-00	s	FILM 1uF 5% 50V
C14	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C20	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
CN1	1-566-444-11	o	CONNECTOR, D-SUB 50P (MALE)
CN2	1-580-537-11	o	CONNECTOR PC BOARD 16P
CN3	1-580-537-11	o	CONNECTOR PC BOARD 16P
CN4	1-580-535-11	o	CONNECTOR PC BOARD 12P
CN5	1-580-535-11	o	CONNECTOR PC BOARD 12P
CN6	1-580-533-11	s	CONNECTOR PC BOARD 8P
CN7	1-580-533-11	s	CONNECTOR PC BOARD 8P
CN8	1-580-533-11	s	CONNECTOR PC BOARD 8P
CN9	1-580-537-11	o	CONNECTOR PC BOARD 16P
CN10	1-580-194-21	o	CONNECTOR, PC BOARD 100P
CN11	1-580-194-21	o	CONNECTOR, PC BOARD 100P
CN12	1-580-532-11	o	CONNECTOR PC BOARD 6P
CN13	1-580-539-11	o	CONNECTOR PC BOARD 20P
CN14	1-580-534-11	o	CONNECTOR PC BOARD 10P
CN15	1-540-260-11	s	SOCKET, MICRO FUSE
CN16	1-540-260-11	s	SOCKET, MICRO FUSE
CN21	1-691-843-11	s	CONNECTOR, COAXIAL
CN22	1-691-843-11	s	CONNECTOR, COAXIAL
CN23	1-691-843-11	s	CONNECTOR, COAXIAL
CN24	1-691-843-11	s	CONNECTOR, COAXIAL
CN25	1-691-843-11	s	CONNECTOR, COAXIAL
CN31	1-691-843-11	s	CONNECTOR, COAXIAL
CN32	1-691-843-11	s	CONNECTOR, COAXIAL
CN33	1-691-843-11	s	CONNECTOR, COAXIAL
CN34	1-691-843-11	s	CONNECTOR, COAXIAL
CN35	1-691-843-11	s	CONNECTOR, COAXIAL
CN41	1-691-843-11	s	CONNECTOR, COAXIAL
CN42	1-691-843-11	s	CONNECTOR, COAXIAL
CN43	1-691-843-11	s	CONNECTOR, COAXIAL
CN44	1-691-843-11	s	CONNECTOR, COAXIAL
CN45	1-691-843-11	s	CONNECTOR, COAXIAL
CN46	1-691-843-11	s	CONNECTOR, COAXIAL
CN47	1-691-843-11	s	CONNECTOR, COAXIAL
CN48	1-691-843-11	s	CONNECTOR, COAXIAL
CN49	1-691-843-11	s	CONNECTOR, COAXIAL
D1	8-719-023-54	s	DIODE EA60QC06-F
F1	⚠1-576-260-51	s	FUSE, MICRO (SECONDARY)
IC1	8-759-073-40	s	IC SN75ALS181NS
IC2	8-759-300-71	s	IC MC14053BF
IC3	8-759-073-40	s	IC SN75ALS181NS
IC4	8-759-926-45	s	IC SN74HC241ANS

(MB-368 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
L1	1-424-058-11	s	LFT
L2	1-424-058-11	s	LFT
LY1	1-515-897-11	s	RELAY, MINIATURE
LY2	1-515-508-00	s	RELAY
Q1	8-729-117-32	s	TRANSISTOR 2SC4177
R1	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R2	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R3	1-216-687-11	s	METAL 33K 0.50% 1/10W
R4	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R5	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R6	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R7	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R8	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R9	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R10	1-216-077-00	s	METAL, CHIP 15K 5% 1/10W
R11	1-216-077-00	s	METAL, CHIP 15K 5% 1/10W
R12	1-216-077-00	s	METAL, CHIP 15K 5% 1/10W
R13	1-216-077-00	s	METAL, CHIP 15K 5% 1/10W

RE-76 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8271-267-A	o	MOUNTED CIRCUIT BOARD, RE-76
C1	1-124-489-11	s	ELECT 150uF 20% 25V
C2	1-136-165-00	s	FILM 0.1uF 5% 50V
C3	1-124-489-11	s	ELECT 150uF 20% 25V
C4	1-124-489-11	s	ELECT 150uF 20% 25V
C5	1-136-165-00	s	FILM 0.1uF 5% 50V
C6	1-136-165-00	s	FILM 0.1uF 5% 50V
C7	1-124-604-00	s	ELECT 330uF 20% 10V
C8	1-136-177-00	s	FILM 1uF 5% 50V
C9	1-126-516-11	s	ELECT 120uF 20% 16V
C10	1-164-360-11	s	CERAMIC 0.1uF 16V
C11	1-164-360-11	s	CERAMIC 0.1uF 16V
C12	1-126-516-11	s	ELECT 120uF 20% 16V
C13	1-136-177-00	s	FILM 1uF 5% 50V
C14	1-124-604-00	s	ELECT 330uF 20% 10V
C15	1-124-604-00	s	ELECT 330uF 20% 10V
C16	1-136-165-00	s	FILM 0.1uF 5% 50V
C17	1-164-360-11	s	CERAMIC 0.1uF 16V
C18	1-164-360-11	s	CERAMIC 0.1uF 16V
C19	1-135-091-00	s	TANTALUN, CHIP 1uF 10% 16V
C20	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C21	1-137-194-11	s	FILM 0.47uF 5% 50V
C22	1-137-194-11	s	FILM 0.47uF 5% 50V
C23	1-131-374-00	s	TANTALUM 33uF 10% 16V
C24	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C25	1-164-360-11	s	CERAMIC 0.1uF 16V
C26	1-164-392-11	s	CERAMIC 390PF 5% 50V
C31	1-136-177-00	s	FILM 1uF 5% 50V
CN1	1-580-561-11	o	CONNECTOR PC BOARD 12P
D1	8-719-023-54	s	DIODE EA60QC06-F
D2	8-719-800-76	s	DIODE 1SS226
D3	8-719-023-53	s	DIODE EA30QS04-F
D4	8-719-023-53	s	DIODE EA30QS04-F
D5	8-719-800-76	s	DIODE 1SS226
IC1	8-759-937-36	s	IC TL1451ACNS
L1	1-410-283-11	s	48uH (WITH CORE)
L2	1-424-314-21	s	COIL, CHOKE 150uH
L3	1-410-283-11	s	48uH (WITH CORE)
L4	1-424-314-21	s	COIL, CHOKE 150uH
L5	1-410-283-11	s	48uH (WITH CORE)
Q1	8-729-117-32	s	TRANSISTOR 2SC4177
Q2	8-729-117-32	s	TRANSISTOR 2SC4177
Q3	8-729-117-16	s	TRANSISTOR 2SA1611-M6
Q4	8-729-322-45	s	TRANSISTOR 2SJ182S
Q5	8-729-322-45	s	TRANSISTOR 2SJ182S
Q6	8-729-117-32	s	TRANSISTOR 2SC4177
Q7	8-729-117-32	s	TRANSISTOR 2SC4177
Q8	8-729-117-16	s	TRANSISTOR 2SA1611-M6
Q9	8-729-322-45	s	TRANSISTOR 2SJ182S
Q10	8-729-322-45	s	TRANSISTOR 2SJ182S
Q11	8-729-117-32	s	TRANSISTOR 2SC4177
Q12	8-729-117-32	s	TRANSISTOR 2SC4177
Q13	8-729-117-32	s	TRANSISTOR 2SC4177
R1	1-218-708-11	s	METAL 4.7K 0.50% 1/16W
R2	1-218-704-11	s	METAL 3.3K 0.50% 1/16W
R3	1-218-708-11	s	METAL 4.7K 0.50% 1/16W

(RE-76 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R4	1-216-801-11	s	METAL 22 0.50% 1/16W
R5	1-216-801-11	s	METAL 22 0.50% 1/16W
R6	1-216-801-11	s	METAL 22 0.50% 1/16W
R7	1-216-801-11	s	METAL 22 0.50% 1/16W
R8	1-218-708-11	s	METAL 4.7K 0.50% 1/16W
R9	1-218-704-11	s	METAL 3.3K 0.50% 1/16W
R10	1-218-708-11	s	METAL 4.7K 0.50% 1/16W
R11	1-216-838-11	s	METAL, CHIP 27K 5% 1/16W
R12	1-218-714-11	s	METAL 8.2K 0.50% 1/16W
R13	1-218-700-11	s	METAL 2.2K 0.50% 1/16W
R14	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R15	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R16	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R17	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R18	1-218-707-11	s	METAL 4.3K 0.50% 1/16W
R19	1-218-725-11	s	METAL 24K 0.50% 1/16W
R20	1-218-716-11	s	METAL 10K 0.50% 1/16W
R21	1-218-716-11	s	METAL 10K 0.50% 1/16W
R22	1-218-732-11	s	METAL 47K 0.50% 1/16W
R23	1-218-732-11	s	METAL 47K 0.50% 1/16W
R24	1-218-716-11	s	METAL 10K 0.50% 1/16W
R25	1-218-716-11	s	METAL 10K 0.50% 1/16W
R26	1-218-740-11	s	METAL 100K 0.50% 1/16W
R27	1-218-716-11	s	METAL 10K 0.50% 1/16W
R28	1-218-716-11	s	METAL 10K 0.50% 1/16W
R29	1-218-746-11	s	METAL 180K 0.50% 1/16W
RV1	1-237-032-11	s	RES, ADJ, METAL 500
RV2	1-237-032-11	s	RES, ADJ, METAL 500

VDA-20 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8271-421-A	o	MOUNTED CIRCUIT BOARD, VDA-20
4pcs	7-626-320-11	s	PIN, SPRING 3X8
2pcs	7-682-546-04	s	SCREW +B 3X5
C1	1-162-964-11	s	CERAMIC 0.001uF 10% 50V
C6	1-164-360-11	s	CERAMIC 0.1uF 16V
C7	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C8	1-164-360-11	s	CERAMIC 0.1uF 16V
C9	1-164-360-11	s	CERAMIC 0.1uF 16V
C10	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C11	1-164-360-11	s	CERAMIC 0.1uF 16V
C12	1-164-360-11	s	CERAMIC 0.1uF 16V
C13	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C14	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C15	1-164-360-11	s	CERAMIC 0.1uF 16V
C16	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C17	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C18	1-164-677-11	s	CERAMIC 0.033uF 10% 16V
C19	1-162-910-11	s	CERAMIC 5PF 0.25PF 50V
C20	1-162-907-11	s	CERAMIC, CHIP 2PF 50V
C22	1-164-360-11	s	CERAMIC 0.1uF 16V
C23	1-164-156-11	s	CERAMIC 0.1uF 25V0%
C24	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C25	1-162-920-11	s	CERAMIC, CHIP 27PF 5% 50V
C26	1-162-917-11	s	CERAMIC, CHIP 15PF 5% 50V
C28	1-162-908-11	s	CERAMIC 3PF 0.25PF 50V
C29	1-164-360-11	s	CERAMIC 0.1uF 16V
C30	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C31	1-164-360-11	s	CERAMIC 0.1uF 16V
C32	1-162-915-11	s	CERAMIC, CHIP 10PF 5PF 50V
C33	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C35	1-162-909-11	s	CERAMIC 4PF 0.25PF 50V
C36	1-164-360-11	s	CERAMIC 0.1uF 16V
C37	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C38	1-164-360-11	s	CERAMIC 0.1uF 16V
C39	1-162-920-11	s	CERAMIC, CHIP 27PF 5% 50V
C40	1-162-911-11	s	CERAMIC, CHIP 6PF 50V
C41	1-164-677-11	s	CERAMIC 0.033uF 10% 16V
C43	1-164-360-11	s	CERAMIC 0.1uF 16V
C44	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C45	1-164-360-11	s	CERAMIC 0.1uF 16V
C46	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C47	1-162-911-11	s	CERAMIC, CHIP 6PF 50V
C48	1-162-915-11	s	CERAMIC, CHIP 10PF 5PF 50V
C49	1-162-905-11	s	CERAMIC 1PF 0.25PF 50V
C50	1-164-360-11	s	CERAMIC 0.1uF 16V
C51	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C52	1-164-360-11	s	CERAMIC 0.1uF 16V
C53	1-164-360-11	s	CERAMIC 0.1uF 16V
C54	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C55	1-164-360-11	s	CERAMIC 0.1uF 16V
C56	1-164-360-11	s	CERAMIC 0.1uF 16V
C57	1-164-360-11	s	CERAMIC 0.1uF 16V
C58	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C59	1-164-360-11	s	CERAMIC 0.1uF 16V
C60	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C61	1-164-360-11	s	CERAMIC 0.1uF 16V
C62	1-164-360-11	s	CERAMIC 0.1uF 16V
C63	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V

(VDA-20 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C64	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C65	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C66	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C67	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C68	1-164-360-11	s	CERAMIC 0.1uF 16V
C69	1-164-360-11	s	CERAMIC 0.1uF 16V
C72	1-164-677-11	s	CERAMIC 0.033uF 10% 16V
C73	1-162-918-11	s	CERAMIC, CHIP 18PF 5% 50V
C74	1-162-907-11	s	CERAMIC, CHIP 2PF 50V
C75	1-162-909-11	s	CERAMIC 4PF 0.25PF 50V
C76	1-162-909-11	s	CERAMIC 4PF 0.25PF 50V
C77	1-162-905-11	s	CERAMIC 1PF 0.25PF 50V
C78	1-162-909-11	s	CERAMIC 4PF 0.25PF 50V
C80	1-162-904-11	s	CERAMIC 0.5PF 0.25PF 50V
C101	1-162-964-11	s	CERAMIC 0.001uF 10% 50V
C106	1-164-360-11	s	CERAMIC 0.1uF 16V
C107	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C108	1-164-360-11	s	CERAMIC 0.1uF 16V
C109	1-164-360-11	s	CERAMIC 0.1uF 16V
C110	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C111	1-164-360-11	s	CERAMIC 0.1uF 16V
C112	1-164-360-11	s	CERAMIC 0.1uF 16V
C113	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C114	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C115	1-164-360-11	s	CERAMIC 0.1uF 16V
C116	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C117	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C118	1-164-677-11	s	CERAMIC 0.033uF 10% 16V
C119	1-162-910-11	s	CERAMIC 5PF 0.25PF 50V
C120	1-162-907-11	s	CERAMIC, CHIP 2PF 50V
C122	1-164-360-11	s	CERAMIC 0.1uF 16V
C123	1-164-156-11	s	CERAMIC 0.1uF 25V0%
C124	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C125	1-162-920-11	s	CERAMIC, CHIP 27PF 5% 50V
C126	1-162-917-11	s	CERAMIC, CHIP 15PF 5% 50V
C128	1-162-908-11	s	CERAMIC 3PF 0.25PF 50V
C129	1-164-360-11	s	CERAMIC 0.1uF 16V
C130	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C131	1-164-360-11	s	CERAMIC 0.1uF 16V
C132	1-162-915-11	s	CERAMIC, CHIP 10PF 5PF 50V
C133	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C135	1-162-909-11	s	CERAMIC 4PF 0.25PF 50V
C136	1-164-360-11	s	CERAMIC 0.1uF 16V
C137	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C138	1-164-360-11	s	CERAMIC 0.1uF 16V
C139	1-162-920-11	s	CERAMIC, CHIP 27PF 5% 50V
C140	1-162-911-11	s	CERAMIC, CHIP 6PF 50V
C141	1-164-677-11	s	CERAMIC 0.033uF 10% 16V
C143	1-164-360-11	s	CERAMIC 0.1uF 16V
C144	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C145	1-164-360-11	s	CERAMIC 0.1uF 16V
C146	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C147	1-162-911-11	s	CERAMIC, CHIP 6PF 50V
C148	1-162-915-11	s	CERAMIC, CHIP 10PF 5PF 50V
C149	1-162-905-11	s	CERAMIC 1PF 0.25PF 50V
C150	1-164-360-11	s	CERAMIC 0.1uF 16V
C151	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C152	1-164-360-11	s	CERAMIC 0.1uF 16V
C153	1-164-360-11	s	CERAMIC 0.1uF 16V

(VDA-20 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C154	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C155	1-164-360-11	s	CERAMIC 0.1uF 16V
C156	1-164-360-11	s	CERAMIC 0.1uF 16V
C157	1-164-360-11	s	CERAMIC 0.1uF 16V
C158	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C159	1-164-360-11	s	CERAMIC 0.1uF 16V
C160	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C161	1-164-360-11	s	CERAMIC 0.1uF 16V
C162	1-164-360-11	s	CERAMIC 0.1uF 16V
C163	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C164	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C165	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C166	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C167	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C168	1-164-360-11	s	CERAMIC 0.1uF 16V
C169	1-164-360-11	s	CERAMIC 0.1uF 16V
C170	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C171	1-164-360-11	s	CERAMIC 0.1uF 16V
C172	1-164-677-11	s	CERAMIC 0.033uF 10% 16V
C173	1-162-918-11	s	CERAMIC, CHIP 18PF 5% 50V
C174	1-162-907-11	s	CERAMIC, CHIP 2PF 50V
C175	1-162-909-11	s	CERAMIC 4PF 0.25PF 50V
C176	1-162-909-11	s	CERAMIC 4PF 0.25PF 50V
C177	1-162-905-11	s	CERAMIC 1PF 0.25PF 50V
C178	1-162-909-11	s	CERAMIC 4PF 0.25PF 50V
C180	1-162-904-11	s	CERAMIC 0.5PF 0.25PF 50V
C201	1-162-964-11	s	CERAMIC 0.001uF 10% 50V
C206	1-164-360-11	s	CERAMIC 0.1uF 16V
C207	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C208	1-164-360-11	s	CERAMIC 0.1uF 16V
C209	1-164-360-11	s	CERAMIC 0.1uF 16V
C210	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C211	1-164-360-11	s	CERAMIC 0.1uF 16V
C212	1-164-360-11	s	CERAMIC 0.1uF 16V
C213	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C214	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C215	1-164-360-11	s	CERAMIC 0.1uF 16V
C216	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C217	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C218	1-164-677-11	s	CERAMIC 0.033uF 10% 16V
C219	1-162-910-11	s	CERAMIC 5PF 0.25PF 50V
C220	1-162-907-11	s	CERAMIC, CHIP 2PF 50V
C222	1-164-360-11	s	CERAMIC 0.1uF 16V
C223	1-164-156-11	s	CERAMIC 0.1uF 25V0%
C224	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C225	1-162-920-11	s	CERAMIC, CHIP 27PF 5% 50V
C226	1-162-917-11	s	CERAMIC, CHIP 15PF 5% 50V
C228	1-162-908-11	s	CERAMIC 3PF 0.25PF 50V
C230	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C231	1-164-360-11	s	CERAMIC 0.1uF 16V
C232	1-162-915-11	s	CERAMIC, CHIP 10PF 5PF 50V
C233	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C235	1-162-909-11	s	CERAMIC 4PF 0.25PF 50V
C236	1-164-360-11	s	CERAMIC 0.1uF 16V
C237	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C238	1-164-360-11	s	CERAMIC 0.1uF 16V
C239	1-162-920-11	s	CERAMIC, CHIP 27PF 5% 50V
C240	1-162-911-11	s	CERAMIC, CHIP 6PF 50V
C241	1-164-677-11	s	CERAMIC 0.033uF 10% 16V

(VDA-20 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C243	1-164-360-11	s	CERAMIC 0.1uF 16V
C244	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C245	1-164-360-11	s	CERAMIC 0.1uF 16V
C246	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C247	1-162-911-11	s	CERAMIC, CHIP 6PF 50V
C248	1-162-915-11	s	CERAMIC, CHIP 10PF 5PF 50V
C249	1-162-905-11	s	CERAMIC 1PF 0.25PF 50V
C250	1-164-360-11	s	CERAMIC 0.1uF 16V
C251	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C252	1-164-360-11	s	CERAMIC 0.1uF 16V
C253	1-164-360-11	s	CERAMIC 0.1uF 16V
C254	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C255	1-164-360-11	s	CERAMIC 0.1uF 16V
C256	1-164-360-11	s	CERAMIC 0.1uF 16V
C257	1-164-360-11	s	CERAMIC 0.1uF 16V
C258	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C259	1-164-360-11	s	CERAMIC 0.1uF 16V
C260	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C261	1-164-360-11	s	CERAMIC 0.1uF 16V
C262	1-164-360-11	s	CERAMIC 0.1uF 16V
C263	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C264	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C265	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C266	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C267	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C268	1-164-360-11	s	CERAMIC 0.1uF 16V
C269	1-164-360-11	s	CERAMIC 0.1uF 16V
C272	1-164-677-11	s	CERAMIC 0.033uF 10% 16V
C273	1-162-918-11	s	CERAMIC, CHIP 18PF 5% 50V
C274	1-162-907-11	s	CERAMIC, CHIP 2PF 50V
C275	1-162-909-11	s	CERAMIC 4PF 0.25PF 50V
C276	1-162-909-11	s	CEkAMIC 4PF 0.25PF 50V
C277	1-162-905-11	s	CERAMIC 1PF 0.25PF 50V
C278	1-162-909-11	s	CERAMIC 4PF 0.25PF 50V
C280	1-162-904-11	s	CERAMIC 0.5PF 0.25PF 50V
C290	1-164-360-11	s	CERAMIC 0.1uF 16V
C301	1-162-905-11	s	CERAMIC 1PF 0.25PF 50V
C302	1-162-910-11	s	CERAMIC 5PF 0.25PF 50V
C305	1-164-360-11	s	CERAMIC 0.1uF 16V
C306	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C308	1-164-360-11	s	CERAMIC 0.1uF 16V
C309	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C310	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C311	1-164-360-11	s	CERAMIC 0.1uF 16V
C312	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C313	1-164-360-11	s	CERAMIC 0.1uF 16V
C314	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C315	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C316	1-164-360-11	s	CERAMIC 0.1uF 16V
C317	1-164-360-11	s	CERAMIC 0.1uF 16V
C318	1-162-905-11	s	CERAMIC 1PF 0.25PF 50V
C319	1-162-910-11	s	CERAMIC 5PF 0.25PF 50V
C321	1-162-907-11	s	CERAMIC, CHIP 2PF 50V
C323	1-164-360-11	s	CERAMIC 0.1uF 16V
C324	1-164-360-11	s	CERAMIC 0.1uF 16V
C325	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C326	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C327	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C328	1-162-915-11	s	CERAMIC, CHIP 10PF 5PF 50V

(VDA-20 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C329	1-135-164-21	s	TANTALUM, CHIP 22uF 20% 10V
C330	1-164-677-11	s	CERAMIC 0.033uF 10% 16V
C331	1-162-912-11	s	CERAMIC 7PF 0.5PF 50V
C332	1-162-918-11	s	CERAMIC, CHIP 18PF 5% 50V
C335	1-164-156-11	s	CERAMIC 0.1uF 25V0%
C336	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C337	1-164-360-11	s	CERAMIC 0.1uF 16V
C338	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C339	1-162-912-11	s	CERAMIC 7PF 0.5PF 50V
C342	1-164-360-11	s	CERAMIC 0.1uF 16V
C343	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C344	1-164-360-11	s	CERAMIC 0.1uF 16V
C345	1-162-915-11	s	CERAMIC, CHIP 10PF 5PF 50V
C346	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C348	1-162-907-11	s	CERAMIC, CHIP 2PF 50V
C349	1-164-360-11	s	CERAMIC 0.1uF 16V
C350	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C351	1-164-360-11	s	CERAMIC 0.1uF 16V
C352	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C353	1-162-915-11	s	CERAMIC, CHIP 10PF 5PF 50V
C354	1-162-909-11	s	CERAMIC 4PF 0.25PF 50V
C356	1-164-360-11	s	CERAMIC 0.1uF 16V
C357	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C358	1-164-360-11	s	CERAMIC 0.1uF 16V
C359	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C360	1-162-911-11	s	CERAMIC, CHIP 6PF 50V
C361	1-164-376-11	s	CERAMIC 11PF 5% 50V
C363	1-164-360-11	s	CERAMIC 0.1uF 16V
C364	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C365	1-164-360-11	s	CERAMIC 0.1uF 16V
C366	1-164-360-11	s	CERAMIC 0.1uF 16V
C367	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C368	1-164-360-11	s	CERAMIC 0.1uF 16V
C369	1-164-360-11	s	CERAMIC 0.1uF 16V
C370	1-164-360-11	s	CERAMIC 0.1uF 16V
C371	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C372	1-164-360-11	s	CERAMIC 0.1uF 16V
C373	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C374	1-164-360-11	s	CERAMIC 0.1uF 16V
C375	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C376	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C377	1-164-677-11	s	CERAMIC 0.033uF 10% 16V
C378	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C379	1-162-905-11	s	CERAMIC 1PF 0.25PF 50V
C381	1-162-905-11	s	CERAMIC 1PF 0.25PF 50V
C382	1-162-907-11	s	CERAMIC, CHIP 2PF 50V
C383	1-162-910-11	s	CERAMIC 5PF 0.25PF 50V
C385	1-162-907-11	s	CERAMIC, CHIP 2PF 50V
C405	1-164-360-11	s	CERAMIC 0.1uF 16V
C406	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C408	1-164-360-11	s	CERAMIC 0.1uF 16V
C409	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C410	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C411	1-164-360-11	s	CERAMIC 0.1uF 16V
C412	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C413	1-164-360-11	s	CERAMIC 0.1uF 16V
C414	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C415	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C416	1-164-360-11	s	CERAMIC 0.1uF 16V

(VDA-20 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C417	1-164-360-11	s	CERAMIC 0.1uF 16V
C421	1-162-907-11	s	CERAMIC, CHIP 2PF 50V
C423	1-164-360-11	s	CERAMIC 0.1uF 16V
C424	1-164-360-11	s	CERAMIC 0.1uF 16V
C425	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C426	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C427	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C428	1-162-915-11	s	CERAMIC, CHIP 10PF 5PF 50V
C429	1-135-164-21	s	TANTALUM, CHIP 22uF 20% 10V
C430	1-164-677-11	s	CERAMIC 0.033uF 10% 16V
C431	1-162-912-11	s	CERAMIC 7PF 0.5PF 50V
C432	1-162-918-11	s	CERAMIC, CHIP 18PF 5% 50V
C435	1-164-156-11	s	CERAMIC 0.1uF 25V0%
C436	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C437	1-164-360-11	s	CERAMIC 0.1uF 16V
C438	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C439	1-162-912-11	s	CERAMIC 7PF 0.5PF 50V
C442	1-164-360-11	s	CERAMIC 0.1uF 16V
C443	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C444	1-164-360-11	s	CERAMIC 0.1uF 16V
C445	1-162-915-11	s	CERAMIC, CHIP 10PF 5PF 50V
C446	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C448	1-162-907-11	s	CERAMIC, CHIP 2PF 50V
C449	1-164-360-11	s	CERAMIC 0.1uF 16V
C450	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C451	1-164-360-11	s	CERAMIC 0.1uF 16V
C452	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C453	1-162-915-11	s	CERAMIC, CHIP 10PF 5PF 50V
C454	1-162-909-11	s	CERAMIC 4PF 0.25PF 50V
C456	1-164-360-11	s	CERAMIC 0.1uF 16V
C457	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C458	1-164-360-11	s	CERAMIC 0.1uF 16V
C459	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C460	1-162-911-11	s	CERAMIC, CHIP 6PF 50V
C461	1-164-376-11	s	CERAMIC 11PF 5% 50V
C463	1-164-360-11	s	CERAMIC 0.1uF 16V
C464	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C465	1-164-360-11	s	CERAMIC 0.1uF 16V
C466	1-164-360-11	s	CERAMIC 0.1uF 16V
C467	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C468	1-164-360-11	s	CERAMIC 0.1uF 16V
C469	1-164-360-11	s	CERAMIC 0.1uF 16V
C470	1-164-360-11	s	CERAMIC 0.1uF 16V
C471	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C472	1-164-360-11	s	CERAMIC 0.1uF 16V
C473	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C474	1-164-360-11	s	CERAMIC 0.1uF 16V
C475	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C476	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C477	1-164-677-11	s	CERAMIC 0.033uF 10% 16V
C478	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C479	1-162-905-11	s	CERAMIC 1PF 0.25PF 50V
C481	1-162-905-11	s	CERAMIC 1PF 0.25PF 50V
C482	1-162-907-11	s	CERAMIC, CHIP 2PF 50V
C483	1-162-910-11	s	CERAMIC 5PF 0.25PF 50V
C485	1-162-907-11	s	CERAMIC, CHIP 2PF 50V
C501	1-164-360-11	s	CERAMIC 0.1uF 16V
C502	1-164-360-11	s	CERAMIC 0.1uF 16V
C503	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V

(VDA-20 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C504	1-164-360-11	s	CERAMIC 0.1uF 16V
C505	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C506	1-164-360-11	s	CERAMIC 0.1uF 16V
C507	1-164-360-11	s	CERAMIC 0.1uF 16V
C508	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C509	1-164-360-11	s	CERAMIC 0.1uF 16V
C510	1-164-360-11	s	CERAMIC 0.1uF 16V
C511	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C512	1-164-360-11	s	CERAMIC 0.1uF 16V
C513	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C514	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C515	1-164-360-11	s	CERAMIC 0.1uF 16V
C516	1-164-360-11	s	CERAMIC 0.1uF 16V
C517	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C518	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C519	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C520	1-135-091-00	s	TANTALUN, CHIP 1uF 10% 16V
C521	1-164-360-11	s	CERAMIC 0.1uF 16V
C522	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C523	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C524	1-162-915-11	s	CERAMIC, CHIP 10PF 5PF 50V
C525	1-162-915-11	s	CERAMIC, CHIP 10PF 5PF 50V
C526	1-135-179-21	s	TANTAL 2.2uF 10% 16V
C527	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C528	1-127-517-11	s	ELECT (SOLID) 150uF 20% 16V
C529	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C530	1-127-517-11	s	ELECT (SOLID) 150uF 20% 16V
C531	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C532	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C536	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C537	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C538	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C539	1-162-907-11	s	CERAMIC, CHIP 2PF 50V
C601	1-162-911-11	s	CERAMIC, CHIP 6PF 50V
C602	1-162-911-11	s	CERAMIC, CHIP 6PF 50V
C603	1-162-911-11	s	CERAMIC, CHIP 6PF 50V
C701	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C702	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C703	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
CN1	1-580-195-21	s	CONNECTOR, PC BOARD 100P
D13	8-719-800-76	s	DIODE 1SS226
D51	8-719-404-35	s	DIODE MA141WK
D52	8-719-404-35	s	DIODE MA141WK
D61	8-719-901-44	s	DIODE SLP144B
IC1	8-759-054-61	s	IC CLC505AJE
IC2	8-759-054-61	s	IC CLC505AJE
IC3	8-752-052-82	s	IC CXA1432M
IC4	8-759-054-61	s	IC CLC505AJE
IC5	8-759-054-61	s	IC CLC505AJE
IC6	8-752-052-77	s	IC CXA1450M
IC7	8-759-054-61	s	IC CLC505AJE
IC8	8-752-052-77	s	IC CXA1450M
IC9	8-759-054-61	s	IC CLC505AJE
IC10	8-752-052-77	s	IC CXA1450M
IC11	8-759-054-61	s	IC CLC505AJE
IC12	8-752-052-77	s	IC CXA1450M
IC13	8-752-052-77	s	IC CXA1450M
IC14	8-759-054-61	s	IC CLC505AJE

(VDA-20 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
IC15	8-752-052-77	s	IC CXA1450M
IC16	8-752-052-77	s	IC CXA1450M
IC17	8-752-052-73	s	IC CXA1451M
IC21	8-759-054-61	s	IC CLC505AJE
IC22	8-759-054-61	s	IC CLC505AJE
IC23	8-752-052-82	s	IC CXA1432M
IC24	8-759-054-61	s	IC CLC505AJE
IC25	8-759-054-61	s	IC CLC505AJE
IC26	8-752-052-77	s	IC CXA1450M
IC27	8-759-054-61	s	IC CLC505AJE
IC28	8-752-052-77	s	IC CXA1450M
IC29	8-759-054-61	s	IC CLC505AJE
IC30	8-752-052-77	s	IC CXA1450M
IC31	8-759-054-61	s	IC CLC505AJE
IC32	8-752-052-77	s	IC CXA1450M
IC33	8-752-052-77	s	IC CXA1450M
IC34	8-759-054-61	s	IC CLC505AJE
IC35	8-752-052-77	s	IC CXA1450M
IC36	8-752-052-77	s	IC CXA1450M
IC37	8-752-052-73	s	IC CXA1451M
IC38	8-759-142-20	s	IC UPC4062G2
IC41	8-759-054-61	s	IC CLC505AJE
IC42	8-759-054-61	s	IC CLC505AJE
IC43	8-752-052-82	s	IC CXA1432M
IC44	8-759-054-61	s	IC CLC505AJE
IC45	8-759-054-61	s	IC CLC505AJE
IC46	8-752-052-77	s	IC CXA1450M
IC47	8-759-054-61	s	IC CLC505AJE
IC48	8-752-052-77	s	IC CXA1450M
IC49	8-759-054-61	s	IC CLC505AJE
IC50	8-752-052-77	s	IC CXA1450M
IC51	8-759-054-61	s	IC CLC505AJE
IC52	8-752-052-77	s	IC CXA1450M
IC53	8-752-052-77	s	IC CXA1450M
IC54	8-759-054-61	s	IC CLC505AJE
IC55	8-752-052-77	s	IC CXA1450M
IC56	8-752-052-77	s	IC CXA1450M
IC57	8-752-052-73	s	IC CXA1451M
IC61	8-759-054-61	s	IC CLC505AJE
IC62	8-752-052-77	s	IC CXA1450M
IC63	8-759-054-61	s	IC CLC505AJE
IC64	8-752-052-82	s	IC CXA1432M
IC65	8-759-054-61	s	IC CLC505AJE
IC67	8-759-030-50	s	IC MC14490F
IC68	8-759-054-61	s	IC CLC505AJE
IC69	8-759-054-61	s	IC CLC505AJE
IC70	8-752-052-77	s	IC CXA1450M
IC71	8-759-054-61	s	IC CLC505AJE
IC72	8-752-052-77	s	IC CXA1450M
IC73	8-759-054-61	s	IC CLC505AJE
IC74	8-752-052-77	s	IC CXA1450M
IC75	8-759-054-61	s	IC CLC505AJE
IC76	8-752-052-77	s	IC CXA1450M
IC77	8-752-052-77	s	IC CXA1450M
IC78	8-759-054-61	s	IC CLC505AJE
IC79	8-752-052-77	s	IC CXA1450M
IC80	8-752-052-77	s	IC CXA1450M
IC81	8-752-052-77	s	IC CXA1450M
IC82	8-759-054-62	s	IC CLC406AJE

(VDA-20 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
IC91	8-759-054-61	s	IC CLC505AJE
IC92	8-752-052-77	s	IC CXA1450M
IC93	8-759-054-61	s	IC CLC505AJE
IC94	8-752-052-82	s	IC CXA1432M
IC95	8-759-054-61	s	IC CLC505AJE
IC97	8-759-030-50	s	IC MC14490F
IC98	8-759-054-61	s	IC CLC505AJE
IC99	8-759-054-61	s	IC CLC505AJE
IC100	8-752-052-77	s	IC CXA1450M
IC101	8-759-054-61	s	IC CLC505AJE
IC102	8-752-052-77	s	IC CXA1450M
IC103	8-759-054-61	s	IC CLC505AJE
IC104	8-752-052-77	s	IC CXA1450M
IC105	8-759-054-61	s	IC CLC505AJE
IC106	8-752-052-77	s	IC CXA1450M
IC107	8-752-052-77	s	IC CXA1450M
IC108	8-759-054-61	s	IC CLC505AJE
IC109	8-752-052-77	s	IC CXA1450M
IC110	8-752-052-77	s	IC CXA1450M
IC111	8-752-052-73	s	IC CXA1451M
IC121	8-752-052-77	s	IC CXA1450M
IC122	8-752-052-77	s	IC CXA1450M
IC123	8-752-052-73	s	IC CXA1451M
IC124	8-759-054-61	s	IC CLC505AJE
IC125	8-759-054-61	s	IC CLC505AJE
IC126	8-759-009-49	s	IC MC14532BF
IC127	8-759-926-18	s	IC SN74HC157ANS
IC128	8-759-054-61	s	IC CLC505AJE
IC129	8-759-239-34	s	IC TC74HC4538AF
IC130	8-759-009-04	s	IC MC14050BF
IC131	8-759-239-34	s	IC TC74HC4538AF
IC132	8-759-008-67	s	IC MC14066BF
IC133	8-759-009-49	s	IC MC14532BF
IC134	8-759-142-19	s	IC UPC4064G
IC135	8-759-066-68	s	IC REF-03GS
IC136	8-759-204-06	s	IC TC4075BF
IC137	8-759-054-61	s	IC CLC505AJE
IC138	8-759-054-61	s	IC CLC505AJE
IC139	8-759-054-61	s	IC CLC505AJE
L1	1-410-284-11	s	10uH (WITH CORE)
L2	1-410-284-11	s	10uH (WITH CORE)
L3	1-410-284-11	s	10uH (WITH CORE)
L4	1-410-284-11	s	10uH (WITH CORE)
Q5	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q6	8-729-143-14	s	TRANSISTOR 2SC4176-B35
Q15	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q16	8-729-143-14	s	TRANSISTOR 2SC4176-B35
Q17	8-729-117-32	s	TRANSISTOR 2SC4177
Q25	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q26	8-729-143-14	s	TRANSISTOR 2SC4176-B35
Q39	8-729-143-14	s	TRANSISTOR 2SC4176-B35
Q49	8-729-143-14	s	TRANSISTOR 2SC4176-B35
Q51	8-729-143-14	s	TRANSISTOR 2SC4176-B35
Q52	8-729-143-14	s	TRANSISTOR 2SC4176-B35
Q53	8-729-143-14	s	TRANSISTOR 2SC4176-B35
Q54	8-729-117-32	s	TRANSISTOR 2SC4177
Q55	8-729-805-25	s	TRANSISTOR 2SB1121-S
Q56	8-729-117-32	s	TRANSISTOR 2SC4177

(VDA-20 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
Q57	8-729-117-16	s	TRANSISTOR 2SA1611-M6
Q58	8-729-807-16	s	TRANSISTOR 2SD1621-R
Q59	8-729-805-25	s	TRANSISTOR 2SB1121-S
Q60	8-729-117-32	s	TRANSISTOR 2SC4177
Q61	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q62	8-729-143-14	s	TRANSISTOR 2SC4176-B35
R1	1-218-664-11	s	METAL 68 0.50% 1/16W
R2	1-216-808-11	s	METAL, CHIP 82 5% 1/16W
R3	1-218-664-11	s	METAL 68 0.50% 1/16W
R4	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R5	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R6	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R11	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R17	1-218-736-11	s	METAL 68K 0.50% 1/16W
R18	1-218-457-11	s	METAL 910 0.50% 1/16W
R19	1-218-736-11	s	METAL 68K 0.50% 1/16W
R20	1-218-680-11	s	METAL 330 0.50% 1/16W
R21	1-218-716-11	s	METAL 10K 0.50% 1/16W
R22	1-216-808-11	s	METAL, CHIP 82 5% 1/16W
R23	1-218-457-11	s	METAL 910 0.50% 1/16W
R24	1-218-680-11	s	METAL 330 0.50% 1/16W
R25	1-218-330-11	s	METAL 11K 0.50% 1/16W
R26	1-218-330-11	s	METAL 11K 0.50% 1/16W
R27	1-218-271-11	s	METAL 2K 0.50% 1/16W
R28	1-218-736-11	s	METAL 68K 0.50% 1/16W
R29	1-218-688-11	s	METAL 680 0.50% 1/16W
R30	1-216-806-11	s	METAL 56 0.50% 1/16W
R31	1-218-457-11	s	METAL 910 0.50% 1/16W
R32	1-218-680-11	s	METAL 330 0.50% 1/16W
R33	1-218-330-11	s	METAL 11K 0.50% 1/16W
R34	1-218-271-11	s	METAL 2K 0.50% 1/16W
R36	1-218-736-11	s	METAL 68K 0.50% 1/16W
R37	1-218-688-11	s	METAL 680 0.50% 1/16W
R38	1-218-286-11	s	METAL 91 0.50% 1/16W
R39	1-218-457-11	s	METAL 910 0.50% 1/16W
R40	1-218-680-11	s	METAL 330 0.50% 1/16W
R41	1-218-271-11	s	METAL 2K 0.50% 1/16W
R42	1-216-795-11	s	METAL 6.8K 0.50% 1/16W
R44	1-218-736-11	s	METAL 68K 0.50% 1/16W
R45	1-218-688-11	s	METAL 680 0.50% 1/16W
R46	1-218-663-91	s	METAL 62 0.50% 1/16W
R47	1-218-457-11	s	METAL 910 0.50% 1/16W
R48	1-218-680-11	s	METAL 330 0.50% 1/16W
R49	1-218-271-11	s	METAL 2K 0.50% 1/16W
R50	1-218-484-11	s	METAL 750 0.50% 1/16W
R51	1-216-836-11	s	METAL, CHIP 18K 5% 1/16W
R52	1-218-736-11	s	METAL 68K 0.50% 1/16W
R53	1-218-688-11	s	METAL 680 0.50% 1/16W
R54	1-218-668-11	s	METAL 100 0.50% 1/16W
R55	1-218-457-11	s	METAL 910 0.50% 1/16W
R56	1-218-680-11	s	METAL 330 0.50% 1/16W
R57	1-218-705-11	s	METAL 3.6K 0.50% 1/16W
R58	1-218-695-11	s	METAL 1.3K 0.50% 1/16W
R59	1-216-836-11	s	METAL, CHIP 18K 5% 1/16W
R60	1-218-736-11	s	METAL 68K 0.50% 1/16W
R61	1-218-688-11	s	METAL 680 0.50% 1/16W
R62	1-218-457-11	s	METAL 910 0.50% 1/16W
R63	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R64	1-218-736-11	s	METAL 68K 0.50% 1/16W
R65	1-216-817-11	s	METAL, CHIP 470 5% 1/16W
R66	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R67	1-218-289-11	s	METAL, CHIP 510 5% 1/16W
R68	1-218-704-11	s	METAL 3.3K 0.50% 1/16W
R69	1-218-668-11	s	METAL 100 0.50% 1/16W
R70	1-218-700-11	s	METAL 2.2K 0.50% 1/16W
R71	1-218-668-11	s	METAL 100 0.50% 1/16W
R72	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R73	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R74	1-218-736-11	s	METAL 68K 0.50% 1/16W
R75	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R76	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R85	1-218-330-11	s	METAL 11K 0.50% 1/16W
R86	1-218-345-11	s	METAL 9.1K 0.50% 1/16W
R87	1-218-688-11	s	METAL 680 0.50% 1/16W
R101	1-218-664-11	s	METAL 68 0.50% 1/16W
R102	1-216-808-11	s	METAL, CHIP 82 5% 1/16W
R103	1-218-664-11	s	METAL 68 0.50% 1/16W
R104	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R105	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R106	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R111	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R117	1-218-736-11	s	METAL 68K 0.50% 1/16W
R118	1-218-457-11	s	METAL 910 0.50% 1/16W
R119	1-218-736-11	s	METAL 68K 0.50% 1/16W
R120	1-218-680-11	s	METAL 330 0.50% 1/16W
R121	1-218-716-11	s	METAL 10K 0.50% 1/16W
R122	1-216-808-11	s	METAL, CHIP 82 5% 1/16W
R123	1-218-457-11	s	METAL 910 0.50% 1/16W
R124	1-218-680-11	s	METAL 330 0.50% 1/16W
R125	1-218-330-11	s	METAL 11K 0.50% 1/16W
R126	1-218-330-11	s	METAL 11K 0.50% 1/16W
R127	1-218-271-11	s	METAL 2K 0.50% 1/16W
R128	1-218-736-11	s	METAL 68K 0.50% 1/16W
R129	1-218-688-11	s	METAL 680 0.50% 1/16W
R130	1-216-806-11	s	METAL 56 0.50% 1/16W
R131	1-218-457-11	s	METAL 910 0.50% 1/16W
R132	1-218-680-11	s	METAL 330 0.50% 1/16W
R133	1-218-330-11	s	METAL 11K 0.50% 1/16W
R134	1-218-271-11	s	METAL 2K 0.50% 1/16W
R136	1-218-736-11	s	METAL 68K 0.50% 1/16W
R137	1-218-688-11	s	METAL 680 0.50% 1/16W
R138	1-218-286-11	s	METAL 91 0.50% 1/16W
R139	1-218-457-11	s	METAL 910 0.50% 1/16W
R140	1-218-680-11	s	METAL 330 0.50% 1/16W
R141	1-218-271-11	s	METAL 2K 0.50% 1/16W
R142	1-216-795-11	s	METAL 6.8K 0.50% 1/16W
R144	1-218-736-11	s	METAL 68K 0.50% 1/16W
R145	1-218-688-11	s	METAL 680 0.50% 1/16W
R146	1-218-663-91	s	METAL 62 0.50% 1/16W
R147	1-218-457-11	s	METAL 910 0.50% 1/16W
R148	1-218-680-11	s	METAL 330 0.50% 1/16W
R149	1-218-271-11	s	METAL 2K 0.50% 1/16W
R150	1-218-484-11	s	METAL 750 0.50% 1/16W
R151	1-216-836-11	s	METAL, CHIP 18K 5% 1/16W
R152	1-218-736-11	s	METAL 68K 0.50% 1/16W
R153	1-218-688-11	s	METAL 680 0.50% 1/16W
R154	1-218-668-11	s	METAL 100 0.50% 1/16W

(VDA-20 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R155	1-218-457-11	s	METAL 910 0.50% 1/16W
R156	1-218-680-11	s	METAL 330 0.50% 1/16W
R157	1-218-705-11	s	METAL 3.6K 0.50% 1/16W
R158	1-218-695-11	s	METAL 1.3K 0.50% 1/16W
R159	1-216-836-11	s	METAL, CHIP 18K 5% 1/16W
R160	1-218-736-11	s	METAL 68K 0.50% 1/16W
R161	1-218-688-11	s	METAL 680 0.50% 1/16W
R162	1-218-457-11	s	METAL 910 0.50% 1/16W
R163	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R164	1-218-736-11	s	METAL 68K 0.50% 1/16W
R165	1-216-817-11	s	METAL, CHIP 470 5% 1/16W
R166	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R167	1-218-289-11	s	METAL, CHIP 510 5% 1/16W
R168	1-218-704-11	s	METAL 3.3K 0.50% 1/16W
R169	1-218-668-11	s	METAL 100 0.50% 1/16W
R170	1-218-700-11	s	METAL 2.2K 0.50% 1/16W
R171	1-218-668-11	s	METAL 100 0.50% 1/16W
R172	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R173	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R174	1-218-736-11	s	METAL 68K 0.50% 1/16W
R175	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R176	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R177	1-218-714-11	s	METAL 8.2K 0.50% 1/16W
R178	1-218-708-11	s	METAL 4.7K 0.50% 1/16W
R179	1-218-716-11	s	METAL 10K 0.50% 1/16W
R180	1-218-883-11	s	METAL 33K 0.50% 1/16W
R181	1-218-676-11	s	METAL 220 0.50% 1/16W
R182	1-218-724-11	s	METAL 22K 0.50% 1/16W
R183	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R184	1-218-676-11	s	METAL 220 0.50% 1/16W
R185	1-218-330-11	s	METAL 11K 0.50% 1/16W
R186	1-218-345-11	s	METAL 9.1K 0.50% 1/16W
R187	1-218-688-11	s	METAL 680 0.50% 1/16W
R188	1-216-804-11	s	METAL 39K 0.50% 1/16W
R201	1-218-664-11	s	METAL 68 0.50% 1/16W
R202	1-216-808-11	s	METAL, CHIP 82 5% 1/16W
R203	1-218-664-11	s	METAL 68 0.50% 1/16W
R204	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R205	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R206	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R211	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R217	1-218-736-11	s	METAL 68K 0.50% 1/16W
R218	1-218-457-11	s	METAL 910 0.50% 1/16W
R219	1-218-736-11	s	METAL 68K 0.50% 1/16W
R220	1-218-680-11	s	METAL 330 0.50% 1/16W
R221	1-218-716-11	s	METAL 10K 0.50% 1/16W
R222	1-216-808-11	s	METAL, CHIP 82 5% 1/16W
R223	1-218-457-11	s	METAL 910 0.50% 1/16W
R224	1-218-680-11	s	METAL 330 0.50% 1/16W
R225	1-218-330-11	s	METAL 11K 0.50% 1/16W
R226	1-218-330-11	s	METAL 11K 0.50% 1/16W
R227	1-218-271-11	s	METAL 2K 0.50% 1/16W
R228	1-218-736-11	s	METAL 68K 0.50% 1/16W
R229	1-218-688-11	s	METAL 680 0.50% 1/16W
R230	1-216-806-11	s	METAL 56 0.50% 1/16W
R231	1-218-457-11	s	METAL 910 0.50% 1/16W
R232	1-218-680-11	s	METAL 330 0.50% 1/16W
R233	1-218-330-11	s	METAL 11K 0.50% 1/16W
R234	1-218-271-11	s	METAL 2K 0.50% 1/16W

(VDA-20 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R236	1-218-736-11	s	METAL 68K 0.50% 1/16W
R237	1-218-688-11	s	METAL 680 0.50% 1/16W
R238	1-218-286-11	s	METAL 91 0.50% 1/16W
R239	1-218-457-11	s	METAL 910 0.50% 1/16W
R240	1-218-680-11	s	METAL 330 0.50% 1/16W
R241	1-218-271-11	s	METAL 2K 0.50% 1/16W
R242	1-216-795-11	s	METAL 6.8K 0.50% 1/16W
R244	1-218-736-11	s	METAL 68K 0.50% 1/16W
R245	1-218-688-11	s	METAL 680 0.50% 1/16W
R246	1-218-663-91	s	METAL 62 0.50% 1/16W
R247	1-218-457-11	s	METAL 910 0.50% 1/16W
R248	1-218-680-11	s	METAL 330 0.50% 1/16W
R249	1-218-271-11	s	METAL 2K 0.50% 1/16W
R250	1-218-484-11	s	METAL 750 0.50% 1/16W
R251	1-216-836-11	s	METAL, CHIP 18K 5% 1/16W
R252	1-218-736-11	s	METAL 68K 0.50% 1/16W
R253	1-218-688-11	s	METAL 680 0.50% 1/16W
R254	1-218-668-11	s	METAL 100 0.50% 1/16W
R255	1-218-457-11	s	METAL 910 0.50% 1/16W
R256	1-218-680-11	s	METAL 330 0.50% 1/16W
R257	1-218-705-11	s	METAL 3.6K 0.50% 1/16W
R258	1-218-695-11	s	METAL 1.3K 0.50% 1/16W
R259	1-216-836-11	s	METAL, CHIP 18K 5% 1/16W
R260	1-218-736-11	s	METAL 68K 0.50% 1/16W
R261	1-218-688-11	s	METAL 680 0.50% 1/16W
R262	1-218-457-11	s	METAL 910 0.50% 1/16W
R263	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R264	1-218-736-11	s	METAL 68K 0.50% 1/16W
R265	1-216-817-11	s	METAL, CHIP 470 5% 1/16W
R266	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R267	1-218-289-11	s	METAL, CHIP 510 5% 1/16W
R268	1-218-704-11	s	METAL 3.3K 0.50% 1/16W
R269	1-218-668-11	s	METAL 100 0.50% 1/16W
R270	1-218-700-11	s	METAL 2.2K 0.50% 1/16W
R271	1-218-668-11	s	METAL 100 0.50% 1/16W
R272	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R273	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R274	1-218-736-11	s	METAL 68K 0.50% 1/16W
R275	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R276	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R285	1-218-330-11	s	METAL 11K 0.50% 1/16W
R286	1-218-345-11	s	METAL 9.1K 0.50% 1/16W
R287	1-218-688-11	s	METAL 680 0.50% 1/16W
R301	1-218-664-11	s	METAL 68 0.50% 1/16W
R302	1-216-808-11	s	METAL, CHIP 82 5% 1/16W
R303	1-218-664-11	s	METAL 68 0.50% 1/16W
R304	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R305	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R306	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R314	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R317	1-218-736-11	s	METAL 68K 0.50% 1/16W
R318	1-218-457-11	s	METAL 910 0.50% 1/16W
R319	1-216-795-11	s	METAL 6.8K 0.50% 1/16W
R320	1-218-664-11	s	METAL 68 0.50% 1/16W
R322	1-218-664-11	s	METAL 68 0.50% 1/16W
R323	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R324	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R325	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R333	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W

(VDA-20 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R336	1-218-736-11	s	METAL 68K 0.50% 1/16W
R337	1-216-801-11	s	METAL 22 0.50% 1/16W
R339	1-218-740-11	s	METAL 100K 0.50% 1/16W
R340	1-218-704-11	s	METAL 3.3K 0.50% 1/16W
R341	1-218-716-11	s	METAL 10K 0.50% 1/16W
R342	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R343	1-218-457-11	s	METAL 910 0.50% 1/16W
R344	1-218-286-11	s	METAL 91 0.50% 1/16W
R345	1-218-701-11	s	METAL 2.4K 0.50% 1/16W
R346	1-218-708-11	s	METAL 4.7K 0.50% 1/16W
R348	1-218-736-11	s	METAL 68K 0.50% 1/16W
R349	1-218-457-11	s	METAL 910 0.50% 1/16W
R350	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R351	1-218-457-11	s	METAL 910 0.50% 1/16W
R352	1-218-680-11	s	METAL 330 0.50% 1/16W
R353	1-218-708-11	s	METAL 4.7K 0.50% 1/16W
R354	1-218-457-11	s	METAL 910 0.50% 1/16W
R356	1-218-736-11	s	METAL 68K 0.50% 1/16W
R357	1-218-688-11	s	METAL 680 0.50% 1/16W
R358	1-218-704-11	s	METAL 3.3K 0.50% 1/16W
R359	1-218-668-11	s	METAL 100 0.50% 1/16W
R360	1-218-457-11	s	METAL 910 0.50% 1/16W
R361	1-218-680-11	s	METAL 330 0.50% 1/16W
R362	1-218-271-11	s	METAL 2K 0.50% 1/16W
R363	1-218-290-11	s	METAL 6.2K 0.50% 1/16W
R365	1-218-736-11	s	METAL 68K 0.50% 1/16W
R366	1-218-688-11	s	METAL 680 0.50% 1/16W
R367	1-218-661-11	s	METAL 51 0.50% 1/16W
R368	1-218-457-11	s	METAL 910 0.50% 1/16W
R369	1-218-680-11	s	METAL 330 0.50% 1/16W
R370	1-218-271-11	s	METAL 2K 0.50% 1/16W
R371	1-218-330-11	s	METAL 11K 0.50% 1/16W
R372	1-218-736-11	s	METAL 68K 0.50% 1/16W
R373	1-218-286-11	s	METAL 91 0.50% 1/16W
R374	1-218-457-11	s	METAL 910 0.50% 1/16W
R375	1-218-680-11	s	METAL 330 0.50% 1/16W
R376	1-218-708-11	s	METAL 4.7K 0.50% 1/16W
R377	1-216-822-11	s	METAL, CHIP 1.2K 5% 1/16W
R378	1-216-836-11	s	METAL, CHIP 18K 5% 1/16W
R379	1-218-736-11	s	METAL 68K 0.50% 1/16W
R380	1-218-688-11	s	METAL 680 0.50% 1/16W
R381	1-218-457-11	s	METAL 910 0.50% 1/16W
R382	1-218-736-11	s	METAL 68K 0.50% 1/16W
R384	1-218-688-11	s	METAL 680 0.50% 1/16W
R385	1-218-680-11	s	METAL 330 0.50% 1/16W
R386	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R387	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R388	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R389	1-218-330-11	s	METAL 11K 0.50% 1/16W
R390	1-216-834-11	s	METAL, CHIP 12K 5% 1/16W
R391	1-218-721-11	s	METAL 16K 0.50% 1/16W
R392	1-218-688-11	s	METAL 680 0.50% 1/16W
R393	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R401	1-218-664-11	s	METAL 68 0.50% 1/16W
R402	1-216-808-11	s	METAL, CHIP 82 5% 1/16W
R403	1-218-664-11	s	METAL 68 0.50% 1/16W
R404	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R405	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R406	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W

(VDA-20 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R414	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R417	1-218-736-11	s	METAL 68K 0.50% 1/16W
R418	1-218-457-11	s	METAL 910 0.50% 1/16W
R419	1-218-736-11	s	METAL 68K 0.50% 1/16W
R420	1-218-664-11	s	METAL 68 0.50% 1/16W
R422	1-218-664-11	s	METAL 68 0.50% 1/16W
R423	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R424	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R425	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R433	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R436	1-218-736-11	s	METAL 68K 0.50% 1/16W
R437	1-218-649-91	s	METAL 16 0.50% 1/16W
R439	1-218-740-11	s	METAL 100K 0.50% 1/16W
R440	1-218-704-11	s	METAL 3.3K 0.50% 1/16W
R441	1-218-716-11	s	METAL 10K 0.50% 1/16W
R442	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R443	1-218-457-11	s	METAL 910 0.50% 1/16W
R444	1-218-286-11	s	METAL 91 0.50% 1/16W
R445	1-218-701-11	s	METAL 2.4K 0.50% 1/16W
R446	1-218-708-11	s	METAL 4.7K 0.50% 1/16W
R448	1-218-736-11	s	METAL 68K 0.50% 1/16W
R449	1-218-457-11	s	METAL 910 0.50% 1/16W
R450	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R451	1-218-457-11	s	METAL 910 0.50% 1/16W
R452	1-218-680-11	s	METAL 330 0.50% 1/16W
R453	1-218-708-11	s	METAL 4.7K 0.50% 1/16W
R454	1-218-457-11	s	METAL 910 0.50% 1/16W
R456	1-218-736-11	s	METAL 68K 0.50% 1/16W
R457	1-218-688-11	s	METAL 680 0.50% 1/16W
R458	1-218-704-11	s	METAL 3.3K 0.50% 1/16W
R459	1-218-668-11	s	METAL 100 0.50% 1/16W
R460	1-218-457-11	s	METAL 910 0.50% 1/16W
R461	1-218-680-11	s	METAL 330 0.50% 1/16W
R462	1-218-271-11	s	METAL 2K 0.50% 1/16W
R463	1-218-290-11	s	METAL 6.2K 0.50% 1/16W
R465	1-218-736-11	s	METAL 68K 0.50% 1/16W
R466	1-218-688-11	s	METAL 680 0.50% 1/16W
R467	1-218-661-11	s	METAL 51 0.50% 1/16W
R468	1-218-457-11	s	METAL 910 0.50% 1/16W
R469	1-218-680-11	s	METAL 330 0.50% 1/16W
R470	1-218-271-11	s	METAL 2K 0.50% 1/16W
R471	1-218-330-11	s	METAL 11K 0.50% 1/16W
R472	1-218-736-11	s	METAL 68K 0.50% 1/16W
R473	1-218-286-11	s	METAL 91 0.50% 1/16W
R474	1-218-457-11	s	METAL 910 0.50% 1/16W
R475	1-218-680-11	s	METAL 330 0.50% 1/16W
R476	1-218-708-11	s	METAL 4.7K 0.50% 1/16W
R477	1-218-695-11	s	METAL 1.3K 0.50% 1/16W
R478	1-216-836-11	s	METAL, CHIP 18K 5% 1/16W
R479	1-218-736-11	s	METAL 68K 0.50% 1/16W
R480	1-218-688-11	s	METAL 680 0.50% 1/16W
R481	1-218-457-11	s	METAL 910 0.50% 1/16W
R482	1-218-736-11	s	METAL 68K 0.50% 1/16W
R483	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R484	1-218-688-11	s	METAL 680 0.50% 1/16W
R485	1-218-680-11	s	METAL 330 0.50% 1/16W
R486	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R489	1-218-330-11	s	METAL 11K 0.50% 1/16W
R490	1-216-834-11	s	METAL, CHIP 12K 5% 1/16W

(VDA-20 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R491	1-218-721-11	s	METAL 16K 0.50% 1/16W
R492	1-218-688-11	s	METAL 680 0.50% 1/16W
R501	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R502	1-218-708-11	s	METAL 4.7K 0.50% 1/16W
R503	1-218-649-91	s	METAL 16 0.50% 1/16W
R504	1-216-822-11	s	METAL, CHIP 1.2K 5% 1/16W
R505	1-218-676-11	s	METAL 220 0.50% 1/16W
R506	1-216-994-11	s	METAL, CHIP 13K 5% 1/16W
R507	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R508	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R509	1-218-736-11	s	METAL 68K 0.50% 1/16W
R510	1-218-457-11	s	METAL 910 0.50% 1/16W
R511	1-218-736-11	s	METAL 68K 0.50% 1/16W
R512	1-218-716-11	s	METAL 10K 0.50% 1/16W
R513	1-218-716-11	s	METAL 10K 0.50% 1/16W
R514	1-218-716-11	s	METAL 10K 0.50% 1/16W
R515	1-218-716-11	s	METAL 10K 0.50% 1/16W
R516	1-218-883-11	s	METAL 33K 0.50% 1/16W
R517	1-218-883-11	s	METAL 33K 0.50% 1/16W
R518	1-216-853-11	s	METAL, CHIP 470K 5% 1/16W
R519	1-218-740-11	s	METAL 100K 0.50% 1/16W
R520	1-218-740-11	s	METAL 100K 0.50% 1/16W
R521	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R522	1-218-704-11	s	METAL 3.3K 0.50% 1/16W
R523	1-218-680-11	s	METAL 330 0.50% 1/16W
R524	1-218-736-11	s	METAL 68K 0.50% 1/16W
R525	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R526	1-218-708-11	s	METAL 4.7K 0.50% 1/16W
R527	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R528	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R529	1-216-823-11	s	METAL, CHIP 1.5K 5% 1/16W
R530	1-216-826-11	s	METAL, CHIP 2.7K 5% 1/16W
R531	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R532	1-218-708-11	s	METAL 4.7K 0.50% 1/16W
R533	1-218-676-11	s	METAL 220 0.50% 1/16W
R534	1-218-708-11	s	METAL 4.7K 0.50% 1/16W
R535	1-218-883-11	s	METAL 33K 0.50% 1/16W
R536	1-218-704-11	s	METAL 3.3K 0.50% 1/16W
R537	1-218-668-11	s	METAL 100 0.50% 1/16W
R538	1-218-708-11	s	METAL 4.7K 0.50% 1/16W
R539	1-216-838-11	s	METAL, CHIP 27K 5% 1/16W
R540	1-218-748-11	s	METAL 220K 0.50% 1/16W
R541	1-216-842-11	s	METAL, CHIP 56K 5% 1/16W
R542	1-216-853-11	s	METAL, CHIP 470K 5% 1/16W
R543	1-218-752-11	s	METAL 330K 0.50% 1/16W
R544	1-218-748-11	s	METAL 220K 0.50% 1/16W
R545	1-218-744-11	s	METAL 150K 0.50% 1/16W
R546	1-218-676-11	s	METAL 220 0.50% 1/16W
R547	1-218-724-11	s	METAL 22K 0.50% 1/16W
R548	1-218-738-11	s	METAL 82K 0.50% 1/16W
R549	1-218-740-11	s	METAL 100K 0.50% 1/16W
R550	1-218-740-11	s	METAL 100K 0.50% 1/16W
R551	1-218-740-11	s	METAL 100K 0.50% 1/16W
R552	1-218-740-11	s	METAL 100K 0.50% 1/16W
R553	1-218-740-11	s	METAL 100K 0.50% 1/16W
R554	1-218-740-11	s	METAL 100K 0.50% 1/16W
R555	1-218-676-11	s	METAL 220 0.50% 1/16W
R556	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R557	1-218-716-11	s	METAL 10K 0.50% 1/16W

(VDA-20 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R558	1-218-716-11	s	METAL 10K 0.50% 1/16W
R559	1-218-716-11	s	METAL 10K 0.50% 1/16W
R560	1-218-716-11	s	METAL 10K 0.50% 1/16W
R561	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R562	1-218-676-11	s	METAL 220 0.50% 1/16W
R563	1-218-716-11	s	METAL 10K 0.50% 1/16W
R564	1-218-676-11	s	METAL 220 0.50% 1/16W
R565	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R566	1-218-700-11	s	METAL 2.2K 0.50% 1/16W
R567	1-218-725-11	s	METAL 24K 0.50% 1/16W
R568	1-218-716-11	s	METAL 10K 0.50% 1/16W
R569	1-218-716-11	s	METAL 10K 0.50% 1/16W
R570	1-216-826-11	s	METAL, CHIP 2.7K 5% 1/16W
R571	1-218-680-11	s	METAL 330 0.50% 1/16W
R572	1-218-675-11	s	METAL 200 0.50% 1/16W
R573	1-218-675-11	s	METAL 200 0.50% 1/16W
R574	1-218-675-11	s	METAL 200 0.50% 1/16W
RV1	1-237-031-11	s	RES, ADJ, METAL 200
RV2	1-237-031-11	s	RES, ADJ, METAL 200
RV11	1-237-031-11	s	RES, ADJ, METAL 200
RV12	1-237-031-11	s	RES, ADJ, METAL 200
RV31	1-237-031-11	s	RES, ADJ, METAL 200
RV32	1-237-031-11	s	RES, ADJ, METAL 200
RV41	1-237-031-11	s	RES, ADJ, METAL 200
RV42	1-237-031-11	s	RES, ADJ, METAL 200
RV51	1-237-031-11	s	RES, ADJ, METAL 200
RV52	1-237-031-11	s	RES, ADJ, METAL 200
RV53	1-237-031-11	s	RES, ADJ, METAL 200
S1	1-571-704-11	s	SWITCH, ROTARY
S2	1-554-955-11	s	SWITCH, ROTARY

FRAME

Ref. No. or Q'ty	Part No.	SP	Description
1pc	⚠1-413-739-11	o	SWITCHING REGULATOR
1pc	1-950-214-11	o	HARNESS (INCOM-2)
1pc	1-950-216-11	s	HARNESS (VID-1)
CN1 (to AU-166 BOARD)			
	1-580-584-11	o	HOUSING, 16P
	1-580-599-11	o	CONTACT, FEMALE, AWG26-30
CN1 (to RE-76 BOARD)			
	1-580-582-11	o	HOUSING, 12P
	1-580-599-11	o	CONTACT, FEMALE, AWG26-30
CN2 (to AU-166 BOARD)			
	1-580-580-11	o	HOUSING, 8P
	1-580-599-11	o	CONTACT, FEMALE, AWG26-30
CN2 (to MB-368 BOARD)			
	1-580-584-11	o	HOUSING, 16P
	1-580-599-11	o	CONTACT, FEMALE, AWG26-30
CN3 (to AU-166 BOARD)			
	1-580-582-11	o	HOUSING, 12P
	1-580-599-11	o	CONTACT, FEMALE, AWG26-30
CN3 (to CN-600A BOARD)			
	1-580-579-11	o	HOUSING, 6P
	1-580-599-11	o	CONTACT, FEMALE, AWG26-30
CN3 (to CN-600B BOARD)			
	1-580-579-11	o	HOUSING, 6P
	1-580-599-11	o	CONTACT, FEMALE, AWG26-30
CN3 (to MB-368 BOARD)			
	1-580-584-11	o	HOUSING, 16P
	1-580-599-11	o	CONTACT, FEMALE, AWG26-30
CN4 (to MB-368 BOARD)			
	1-580-582-11	o	HOUSING, 12P
	1-580-599-11	o	CONTACT, FEMALE, AWG26-30
CN5 (to MB-368 BOARD)			
	1-580-582-11	o	HOUSING, 12P
	1-580-599-11	o	CONTACT, FEMALE, AWG26-30
CN6 (to MB-368 BOARD)			
	1-580-580-11	o	HOUSING, 8P
	1-580-599-11	o	CONTACT, FEMALE, AWG26-30
CN7 (to MB-368 BOARD)			
	1-580-580-11	o	HOUSING, 8P
	1-580-599-11	o	CONTACT, FEMALE, AWG26-30
CN8 (to MB-368 BOARD)			
	1-580-580-11	o	HOUSING, 8P
	1-580-599-11	o	CONTACT, FEMALE, AWG26-30
CN9 (to MB-368 BOARD)			
	1-580-584-11	o	HOUSING, 16P
	1-580-599-11	o	CONTACT, FEMALE, AWG26-30
CN12 (to MB-368 BOARD)			
	1-580-579-11	o	HOUSING, 6P
	1-580-599-11	o	CONTACT, FEMALE, AWG26-30
CN13 (to MB-368 BOARD)			
	1-580-586-11	o	HOUSING, 20P
	1-580-599-11	o	CONTACT, FEMALE, AWG26-30
CN14 (to MB-368 BOARD)			
	1-580-581-11	o	HOUSING, 10P
	1-580-599-11	o	CONTACT, FEMALE, AWG26-30
CN101	1-562-245-00	o	RECEPTACLE, CONNECTOR 26P "CAMERA"
CN102	1-562-244-00	o	CONNECTOR, 26P, MALE "VTR"

(FRAME)

Ref. No. or Q'ty	Part No.	SP	Description
CN103	1-691-666-11	o	CONNECTOR, ROUND 19P (MALE) "INCOM/TALLY/PGM"
CN104	1-562-221-51	s	CONNECTOR, FEMALE, 12P "REMOTE"
CN105	1-560-494-00	s	CONNECTOR, COAXIAL (BNC RF), MALE "MONITOR"
CN110	1-565-908-11	s	CONNECTOR,XLR 4P,MALE "DC IN 12V"
RV101	1-237-981-11	s	RES, VAR, CARBON 20K "INCOM LEVEL"
RV102	1-237-981-11	s	RES, VAR, CARBON 20K "PGM LEVEL"
S101	1-692-153-11	s	SWITCH, TOGGLE "MIC"
S102	1-571-070-11	s	SWITCH, TOGGLE "CONNOM/PRIVATE"
S103	1-571-073-11	s	SWITCH, TOGGLE "ENG/PD"

PACKING MATERIALS & SUPPLIED ACCESSORIES

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8271-423-A	o	MOUNTED CIRCUIT BOARD, EX-334
1pc	A-8276-318-A	o	MOUNTED CIRCUIT BOARD, CN-600C
1pc	⚠1-506-411-21	s	ADAPTOR, AC PLUG 3P-2P
1pc	⚠1-557-377-11	s	CORD, POWER
1pc	⚠1-590-910-11	s	CORD SET, POWER
1pc	1-691-779-11	s	CONNECTOR, ROUND 19P (FEMALE)
1pc	1-950-215-12	o	HARNESS (INCOM-1)
1pc	2-990-242-01	s	HOLDER (B), PLUG

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